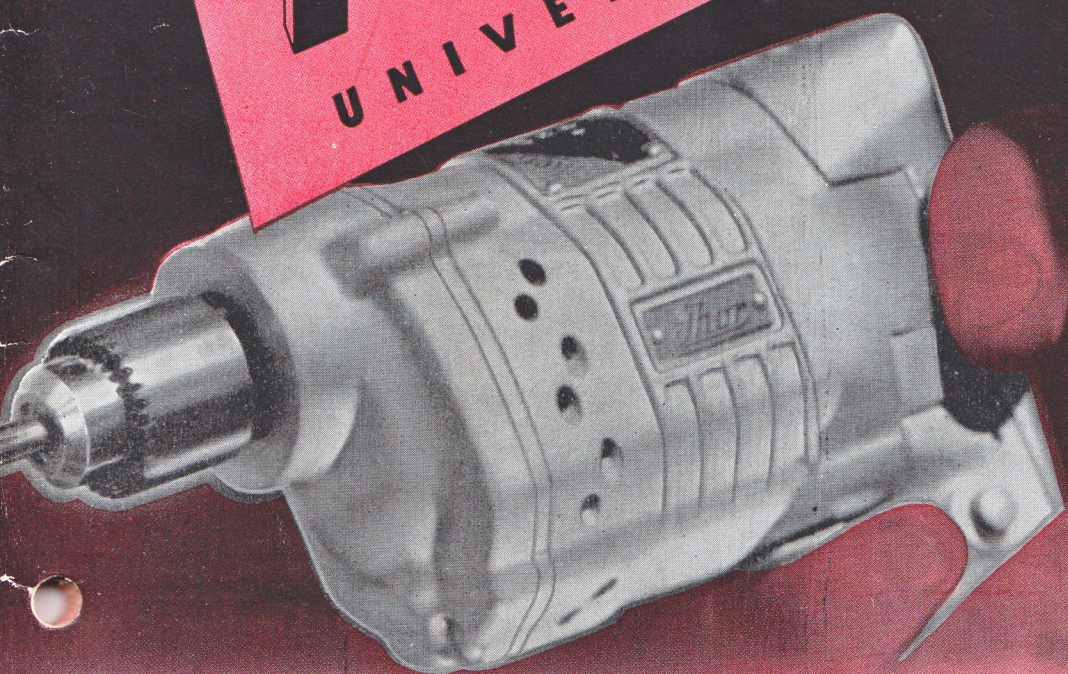


Thor

Portable Electric
TOOLS
UNIVERSAL TYPE

DISTRIBUTED BY
GENERAL ELECTRIC
SUPPLY CORPORATION
ST. PAUL - MINNEAPOLIS - LA CROSSE - DULUTH



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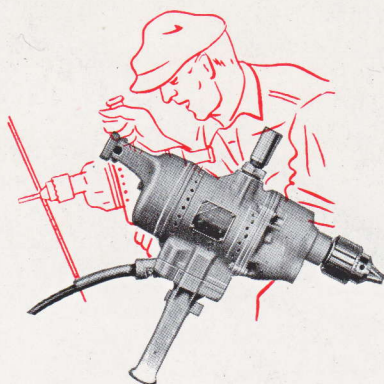
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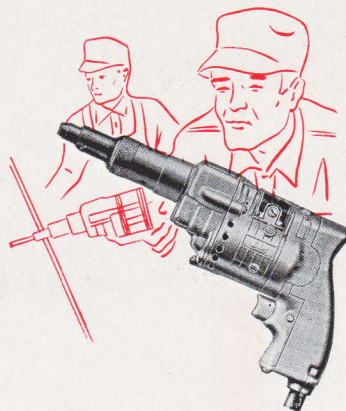
SMALL CAPACITY DRILLS

of the "midget" type for one-hand operation were introduced by Thor. Today, Thor offers double the widest range of models available anywhere.



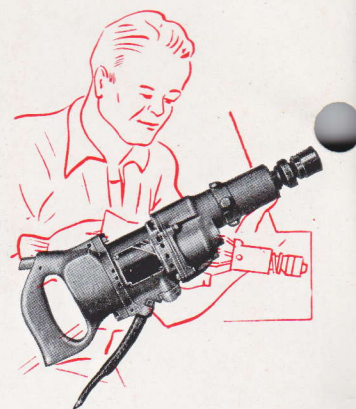
LARGE CAPACITY DRILLS

substantially reduced in weight and bulk without sacrifice of power are available in the Thor line in capacities up to one and one-quarter inch.



SCREW DRIVERS

with capacities up to No. 20 screws make the Thor line the most complete ever offered; more than 300 attachments expand their use still further.



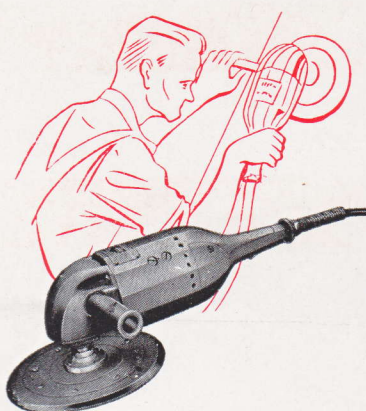
NUT SETTERS

with capacities up to one-half inch nut are available for light and heavy duty service in setting nuts, bolts and lag screws on production or maintenance.



PORTABLE ELECTRIC GRINDERS

truly practical for production operation were first developed by Thor with the perfection of the "Shock Absorber" Spindle that absorbs vibration.



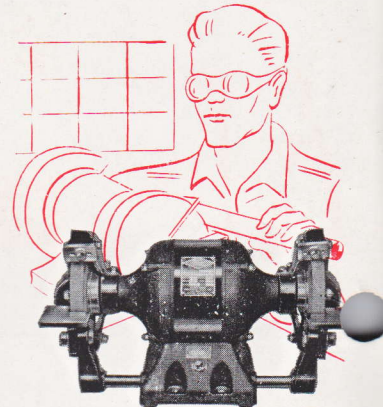
PORTABLE ELECTRIC SANDERS

in 7-inch and 9-inch diameter disc capacities for both light and heavy duty service combine smooth operation with easy handling for top performance.



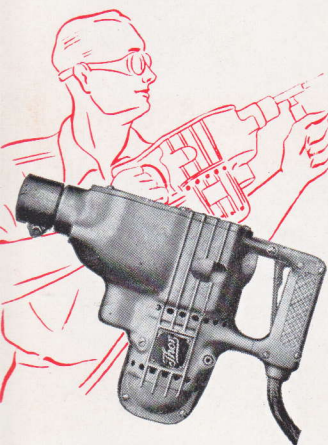
PORTABLE ELECTRIC POLISHERS

for both light and heavy duty service on all types of cleaning, buffing and polishing of metal surfaces are built to withstand the most severe usage.



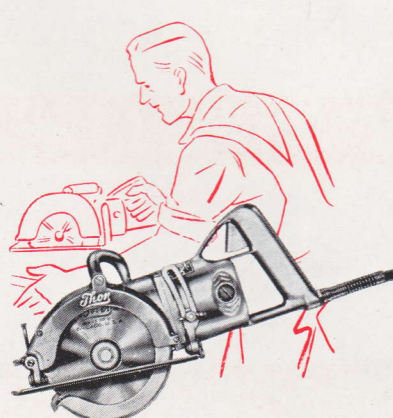
ELECTRIC BENCH GRINDERS

in 6-inch, 7-inch, 8-inch, and 10-inch diameter wheel capacities for light and heavy duty service are available in eight models to handle a wide variety of applications.



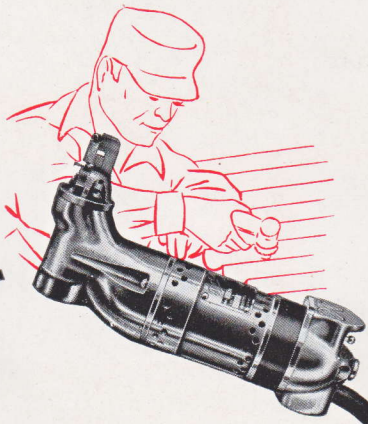
PORTABLE ELECTRIC HAMMERS

with a unique improvement in design, the exclusive Thor "Sling-Shot Drive," have unequalled power and stamina for heavy duty work.



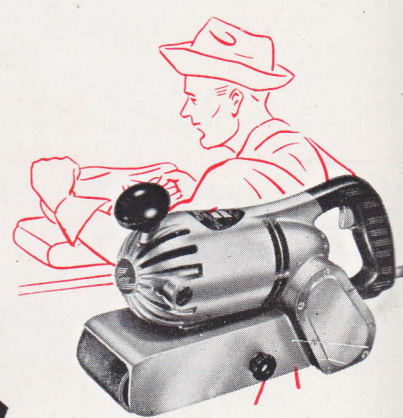
PORTABLE ELECTRIC SAWS

in five different models with capacities from 6- to 12-in. blades provide a saw for every application from small home building to giant bridge construction.



PORTABLE ELECTRIC NIBBLERS

for cutting sheet metal and tubing do everything a conventional portable power shear will do—more besides—and do it easier, better and faster.



PORTABLE BELT SANDERS

in three models for light, standard and heavy duty service produce a smooth, ripple-free surface on stone, wood or metal far faster than hand sanding.

THERE IS A *Thor*
PORTABLE ELECTRIC TOOL
 FOR EVERY PRODUCTION AND MAINTENANCE JOB

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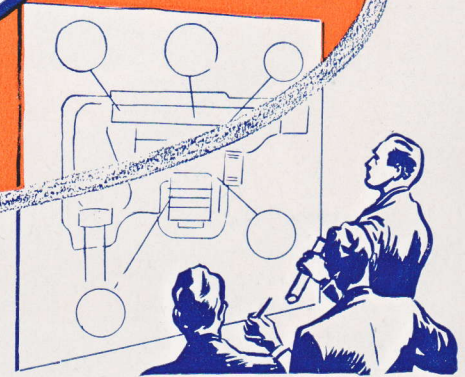
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THOR HIGH FREQUENCY TOOLS.

Thor also manufactures a complete line of High Frequency tools for operation on 3-phase, 180 cycle, 220 volt current to meet the needs of mass production industries. For further information write for Catalog No. 61 which contains complete information and specifications of Thor High Frequency Tools.



Factors Governing the Selection of PORTABLE ELECTRIC TOOLS



In this catalog you will note that the description of each tool specifies the type of work for which it is primarily intended. Such definite application to a given job assures you of long life and dependable service. Proper size tools should be selected to save you both time and money on your work. In their selec-

tion the following factors must be considered:

1. **Work to be performed.**
2. **Service expected of the tools.**
3. **Kind of material to be worked.**

For example, the selection of a drill is governed by these factors, as shown in the table below.

	FACTOR	GOVERNS
1.	Work to be performed—Maximum diameter of hole	Size of tool and chuck rating
2.	Service expected of tool—Continuous or intermittent, severe or light	Rating—such as: Light, Standard or Heavy Duty
3.	Material to be drilled—Ferrous or non-ferrous metals, wood, composition, brick, etc.	Chuck Speed—in conjunction with size of drill bit to be used. Duty Rating—in conjunction with service expected.

Most tools are rated according to their working capacity. These are the ratings that must be considered in selection:

LIGHT DUTY . . .

Any tool with this rating is designed for intermittent service only. It has less motor power than standard and heavy-duty models and a generally lighter and less rugged construction. The price is lower also.

STANDARD DUTY . . .

Tools of standard duty rating are the most popular and widely used. They are built to stand the abuse of general purpose work, have ample power for momentary overloads and are the favorite models for maintenance work. A standard duty tool is medium in price, just as it is medium in power and construction.

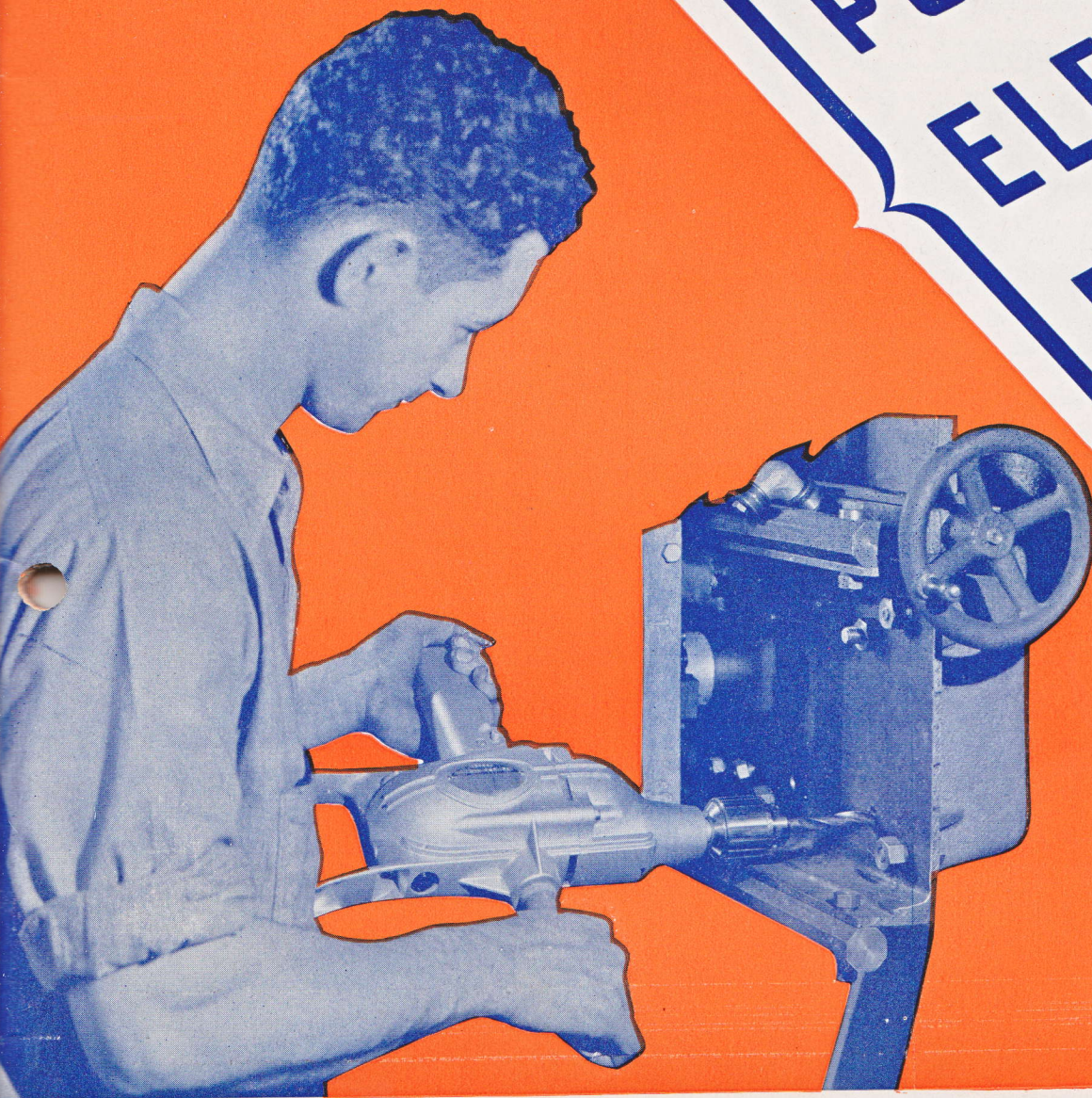
HEAVY DUTY . . .

A Thor tool with this rating is supreme in design and construction. The motor has considerable reserve power over rated capacity; the entire unit is designed and built for continuous production service. Also, heavy duty tools are preferable for general maintenance work because reserve power and sturdier construction insure minimum upkeep.



Thor

PORTABLE ELECTRIC DRILLS



For light, intermittent drilling in a cabinet maker's shop . . . for tough, heavy duty drilling in a mammoth ship yard . . . and for all the hundreds of jobs that fall between these two extremes . . . you'll find precisely the right tool for your work among the fifty and more portable electric drills that Thor builds for every industry. The table at the right gives you some idea of their immense range of capacities, speeds, lengths, and weights. The "Blue Print Story" on the next two pages highlights some of the engineering reasons for their great performance. But the most significant proof of their superiority is, of course, their constant, day-to-day job of turning out the work better, faster, and more economically . . . wherever they are used.

LOOK AT THE RANGE!

Capacities	$\frac{3}{8}$ " to $1\frac{1}{4}$ "
Speeds	300 to 5100 R.P.M.
Lengths	$7\frac{1}{8}$ " to $19\frac{1}{8}$ "
Weights	$2\frac{3}{4}$ to $49\frac{1}{2}$ lbs.



Here's Why Thor DRILLS

**LIGHT WEIGHT, SMALL SIZE
AND TREMENDOUS POWER
COMBINE TO DELIVER MORE
WORK . . . AT LOWER COST!**

Pioneering the field of lightness and balance in portable electric tools, Thor first introduced such improvements as the U14A "midget" type drills of one-quarter inch capacity and followed this with the U44 drill of one-half inch capacity, both with half the weight in half the space . . . and the power of tools twice the size. Now, Thor drills of every capacity are substantially reduced in weight and bulk without sacrifice of power.

Today there are Thor drills for every job—with sizes, speeds and switch styles for every thing from light maintenance to extra heavy production drilling.

Each of them is designed and built to excel in performance and insure fast, efficient work.

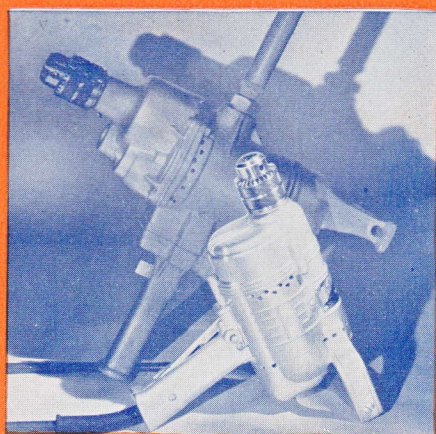
Typical of the design and construction features that contribute to the outstanding performance records of Thor drills are those shown in the detail illustration on page 5. Many of them are exclusive, patented Thor features, bringing you advantages that are available in no other line. *All* of them are tested and proved . . . the result of extensive experience and research in laboratory, factory and field.

Only the finest in materials and workmanship has gone into them. From every standpoint of design, construction and operation, these Thor tools are pre-eminently suited to meet modern industry's demands.

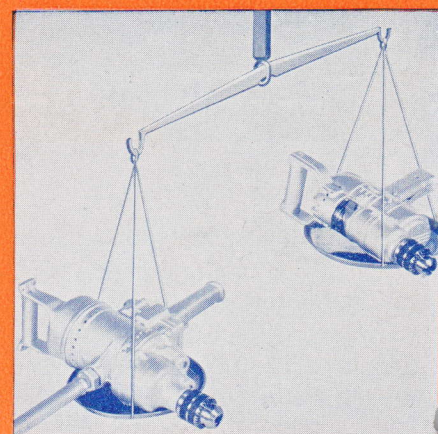
THESE OUTSTANDING ADVANTAGES BRING YOU BETTER PERFORMANCE



COMPACT DESIGN—Close-coupled construction, combined with smooth, streamlined design make Thor drills easy to use in close.



SMALL SIZE—Reduction of bulk means new handling ease and greater accuracy for both production and maintenance work.



LIGHT WEIGHT—Thor design eliminates dead weight without sacrifice of strength . . . brings greater portability and versatility.

CUT COSTS

Heavy duty ball bearings provide for thrust in both directions.

Armature mounted on oversize ball bearings.

Thor tangential ventilation provides 25% greater cooling capacity. Screened vent holes prevent chips entering motor housing.

Arch bearing support integral with field case. (Alignment of armature bearing undisturbed when handle is removed.)

Oversize fan draws generous air circulation through and around motor.

Note—These construction features are shown on the U14F ¼" Drill. Generally they are typical of all Thor electric drills.

Bearings mounted in hardened steel cast-in inserts, diamond bored to assure perfect alignment.

Easily removed handle provides quick access to switch and brushes to facilitate inspection and cleaning.

Jacobs 3-jaw geared chuck threaded on spindle.

Heat treated alloy steel gears with oversize pitch.

Gear case sealed against dust and dirt. Has generous grease capacity.

Sturdy box-type brush holders mounted on plastic block.

Thor tangential ventilation provides 25% greater cooling capacity. Screened vent holes prevent chips entering motor housing.

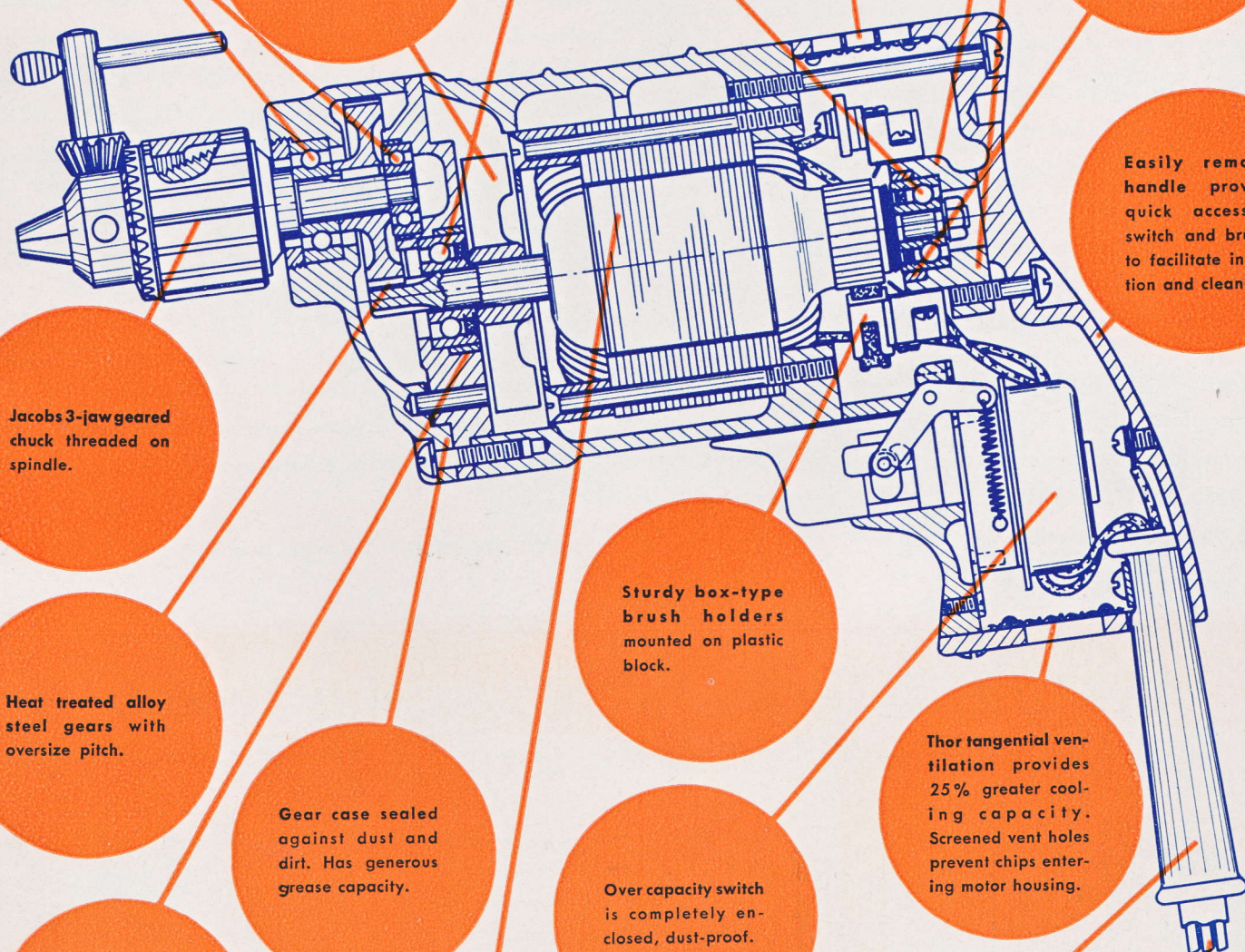
Over capacity switch is completely enclosed, dust-proof.

Bearings mounted in hardened steel cast-in inserts, diamond bored to assure perfect alignment.

Super-powered, cool running universal motor.

Cable protector prevents sharp bends—relieves strain.

3-conductor rubber covered cable (one wire for ground) Underwriters' Approved.



Thor

PORTABLE ELECTRIC

$\frac{1}{4}$ " DRILLS

HEAVY DUTY, $\frac{1}{4}$ in. Capacity — U14K Series "ARMORED IN PLASTIC"

"Armored In Plastic" Thor U14K Series $\frac{1}{4}$ " portable electric drills are built for heavy production service. With their aluminum-conserving plastic housings, they are fully 14% lighter than comparably rated old-style drills, yet this light weight is achieved without sacrifice of motor size or power. More than simply a wartime emergency development, actual day-after-day use has proved that ability to stand up under the toughest conditions and provide outstanding performance.

Although described as a "plastic" drill, the U14K Series drills are actually metal-mounted, high quality production machines. At no point is plastic depended upon for supporting the motor, bearings or gearing. The plastic is used only for covers for the gear case and motor, and for the handle.

The new, tough "Thorite" plastic was specially developed after extended tests for durability. In addition to supplying the required strength with light weight, it is a decided improvement from the standpoint of handling comfort since the changed design and highly efficient ventilation system results in an extremely cool running and handling machine.

$\frac{1}{4}$ " CAPACITY DRILLS. Three speeds are available in these plastic drills: U14K at 2500 R.P.M., a speed and torque ideal for general, heavy production duty, U12K at 3750 R.P.M., and U13K at 5000 R.P.M. for fast drilling on lighter materials.

SWITCH STYLE

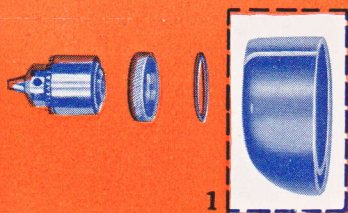
PISTOL GRIP HANDLE with trigger switch. For either continuous or intermittent drilling. Motor operates while trigger is depressed; shuts off instantly when trigger is released. For continuous drilling the switch can be locked by a pin conveniently located on the side of the grip. Models with this switch are: U14K, U12K, U13K. **SIDE HANDLE** with trigger switch furnished instead of pistol grip handle—when ordering, add letter "S" to size number.

EQUIPMENT

STANDARD— $\frac{1}{4}$ " Jacobs 3-jaw Chuck and Key. 3-conductor cable with ground wire and attachment plug. Pistol grip handle with trigger switch.

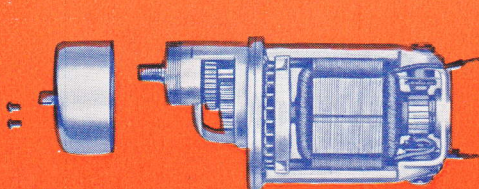
EXTRA EQUIPMENT—See pages 30 and 31.

ARMORED IN PLASTIC.....this Thor Drill is Light, Sturdy and Durable



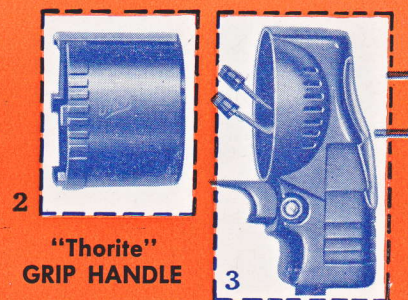
"Thorite"
GEAR CASE COVER

1. Locks against metal center-plate; held in position with metal protection nut threaded directly to inner metal skeleton frame.



"Thorite"
FIELD CASE

2. Slides over inner skeleton frame, is held in keyed position against metal center-plate and locked by grip handle which is securely held by screws to inner metal frame.



"Thorite"
GRIP HANDLE

3. Slides over end of skeleton frame, is held securely against field case in keyed position and locked directly to inner metal frame by screws.



U14K Plastic Drill



U14KS (Side Handle)

SPECIFICATIONS

U14K Series

1/4" DRILLS

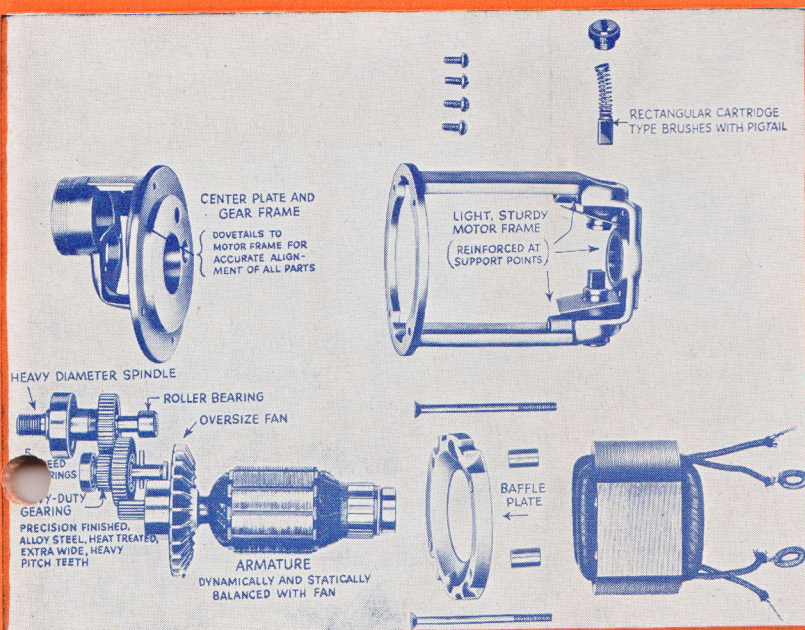
Pistol Grip

Size Number U14K
Free Speed 2500 RPM
Length 8 ³/₈"
Net Weight 3 1/4 lbs.
Shipping Weight 5 lbs.
Code Word ENREF
PRICE\$38.00

Size Number U12K
Free Speed 3750 RPM
Length 8 ³/₈"
Net Weight 3 1/4 lbs.
Shipping Weight 5 lbs.
Code Word ENREG
PRICE\$38.00

Size Number U13K
Free Speed 5000 RPM
Length 8 ³/₈"
Net Weight 3 1/4 lbs.
Shipping Weight 5 lbs.
PRICE\$38.00

When ordering, specify voltage



Thor

PORTABLE ELECTRIC

$\frac{1}{4}$ " DRILLS

STANDARD DUTY, $\frac{1}{4}$ in. Capacity—U14AP Series

These are the original small, light weight, "Midget" type, portable electric drills. Their streamlined design and extremely light weight provide perfect one-hand operation and "finger-point" accuracy, yet, compact as they are, they have the rugged power and stamina of tools twice their size. The same construction features that bring maximum operating efficiency to larger Thor tools have been incorporated in these small drills. The U14AP type drills described on these pages are available in four different speeds, one right angle model, to provide a tool for every need.

All these machines are extremely compact and very strong in relation to size and weight. Housings are die cast, strongly reinforced at all points of stress. The universal motors are highly efficient, operating on A.C. or D.C. and delivering a surplus of power over normal rated-capacity requirements. Brush holders are one piece, die cast. The tangential, exhaust-type ventilation draws a large volume of cooling air over the motor, increasing its efficiency and power. Alloy steel gears are heat treated and of heavy construction for extra long life. Ball bearings throughout.

For average drilling conditions the U14AP type drill is available at 2500 R.P.M. Use this "general-purpose" machine in both maintenance and production service and in awkward places; note how proper power, balance and speed make it adaptable to all kinds of work. The U14DP at 1900 R.P.M. is another "general-purpose" tool for conditions requiring a slightly lower speed.

The U17AP drill has a speed of 700 R.P.M. With this reduced spindle speed and increased torque, this drill is ideal for drilling stainless steel, monel and other hard alloys; also for driving Hole Saws up to $1\frac{1}{8}$ ".

A faster drill, especially suitable for $3/16$ " drilling is the U13AP at 3750 R.P.M. This high speed, combined with power, stamina and light weight makes it perfect for aircraft and lighter industrial work.

RIGHT ANGLE DRILLS. Thor $\frac{1}{4}$ inch right-angle drills have the smallest working clearance of any right-angle drills on the market. Their ability to work in close quarters has made them standard in many shops for production and assembly operations. U14ARP at 2500 R.P.M. is available for general purpose drilling.

EQUIPMENT

STANDARD—3-Jaw Jacobs Chuck and Key. 3-conductor cable, with ground wire and plug. Pistol grip handle with switch style as specified.

OPTIONAL—Plain turned or threaded spindle hub gear cases. See page 12.

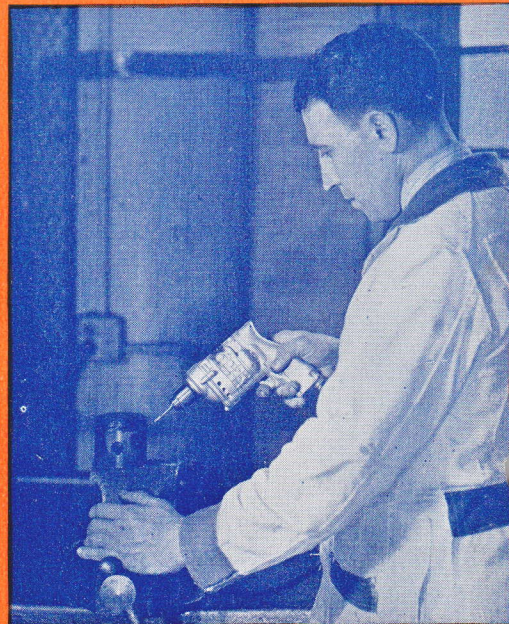
EXTRA—Protecting sleeve for chuck. Protection nut. See page 12.

RIGHT ANGLE DRILLS. U14ARP furnished as standard with No. 306-D attachment with $\frac{1}{4}$ " Collet. No. 305-D attachment with chuck may be furnished as optional, if specified.

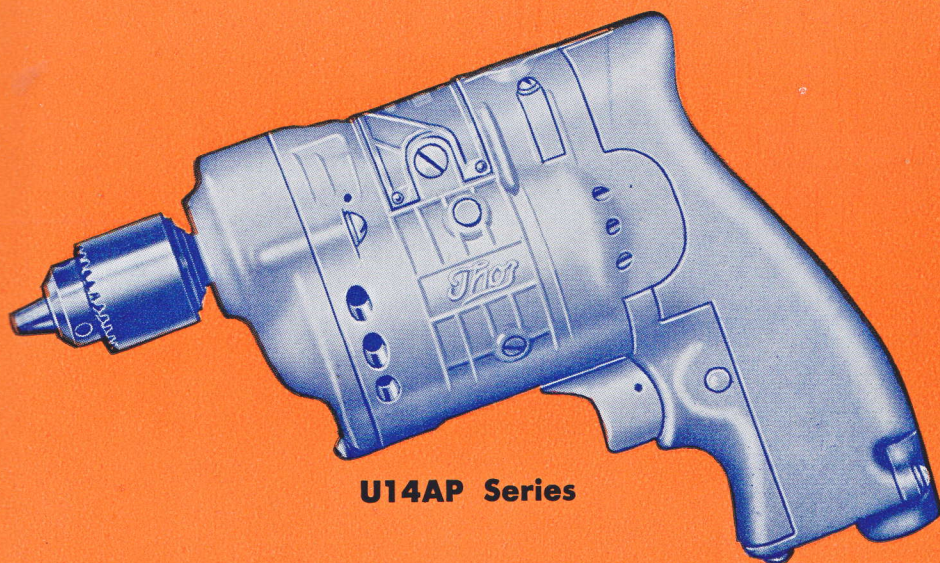
See page 30 for Drill Accessories.



Two typical uses of the Thor U14AP type portable electric drills, "midget" machines designed for easy handling, but packing the power of larger type drills; (left) on a narrow aircraft brace where handling ease answers the demand for accuracy; (right) performing a heavy-duty operation on a piston.

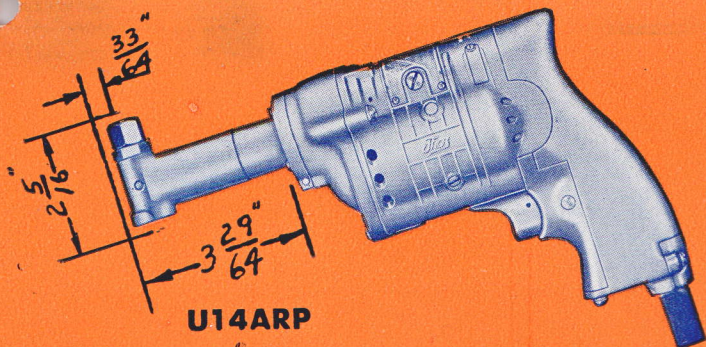


STRAIGHT DRILLS

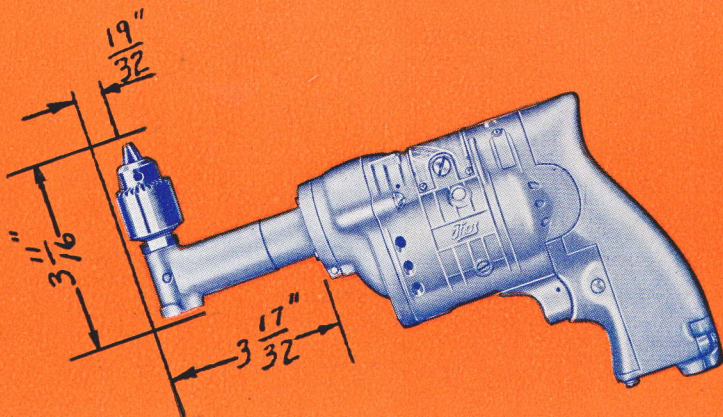


U14AP Series

RIGHT ANGLE DRILLS



**U14ARP
(with Collet)
Standard**



**U14ARP
(with Chuck)
Optional**

SPECIFICATIONS

U14AP Series 1/4" DRILLS

Size Number	U14AP
Free Speed	2500 RPM
Length	7 3/4"
Weight	3 lbs.
Shipping Weight	5 lbs.
Code Word	ELTIB
PRICE	\$32.50

Size Number	U14DP
Free Speed	1900 RPM
Length	7 3/4"
Weight	3 lbs.
Shipping Weight	5 lbs.
Code Word	ELTIC
PRICE	\$32.50

Size Number	U17AP
Free Speed	700 RPM
Length	9"
Weight	3 3/4 lbs.
Shipping Weight	6 lbs.
Code Word	ELTIG
PRICE	\$38.00

Size Number	U13AP
Free Speed	3750 RPM
Length	7 3/4"
Weight	3 lbs.
Shipping Weight	5 lbs.
Code Word	ELTID
PRICE	\$38.00

RIGHT ANGLE MODELS

Size Number	U14ARP
Free Speed	2500 RPM
Length	10"
Weight	3 7/8 lbs.
Shipping Weight	8 lbs.
Code Word	ELTIJ
PRICE	\$45.00

When ordering, specify voltage

Thor

PORTABLE ELECTRIC

$\frac{1}{4}$ " DRILLS

HEAVY DUTY, $\frac{1}{4}$ in. Capacity—U14CP Series

Similar in design and construction to the U14AP series described on page 8, these U14CP drills have a more powerful motor which adapts them particularly to constant, full-capacity production work. Like the U14AP type drills, they are extremely compact in design, light in weight and designed for easy, one-hand operation. U14CP drills can be furnished in four speeds; in one switch type.

The general construction of the U14CP drills is the same as that of the U14AP type. However, the power is increased by use of an over-capacity universal motor, allowing a liberal reserve which insures cool running, even though operation is continuous at rated capacity.

Two-pole switch is several times oversize both electrically and mechanically. The field case is made of heavy section Dowmetal and is reinforced with a tie-bolt to prevent spreading and loosening of the stator. Oversize ball bearings throughout and rugged, alloy steel gears and spindle increase strength and durability. Increased sturdiness is likewise built into these machines. Despite this heavier construction, the weight of these machines is held to only $3\frac{3}{4}$ pounds.

$\frac{1}{4}$ " CAPACITY DRILLS. In these quarter-inch capacity tools four speeds are available: U14CP at 2100 R.P.M., U15CP at 4500 R.P.M. and U13CP at 3000 R.P.M., all designed for general service on production work; and U17CP at 800 R.P.M. with increased torque

for drilling in stainless steel, monel and other hard materials; driving Hole Saws up to $1\frac{1}{2}$ ".

SWITCH STYLE

TRIGGER SWITCH—For either continuous or intermittent drilling. Motor operates while trigger is depressed. For continuous operation the switch can be locked by a latch pin on the side of the grip. Models with this switch are designated: U13CP, U15CP, U14CP, U17CP.

EQUIPMENT

STANDARD—3-Jaw Jacobs Chuck and Key. 3-conductor cable with ground wire and plug. Pistol grip handle with trigger switch only.

OPTIONAL—Plain turned or threaded spindle hub gear cases. See page 12.

EXTRA—Protecting sleeve for chuck. Protection nut. See page. 12.

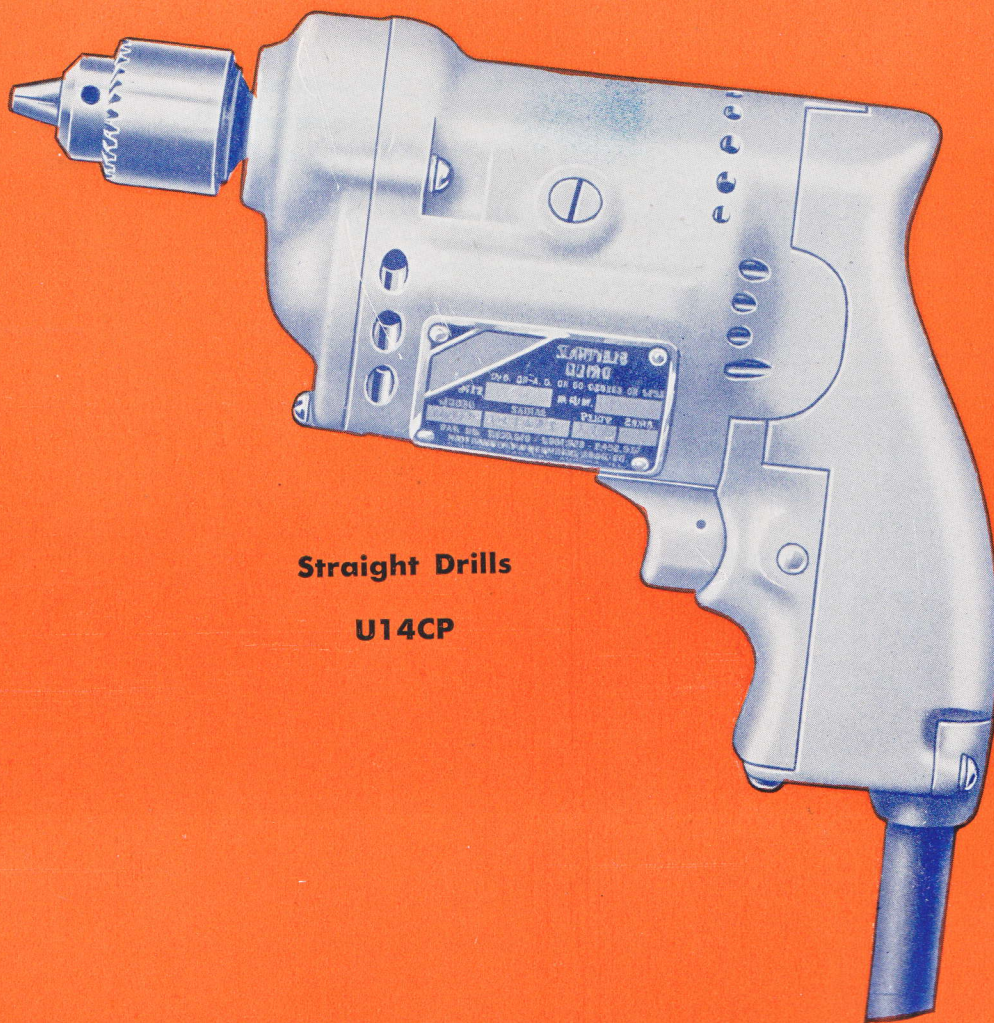
See page 30 for drill accessories.



(Left) Production and maintenance work on aircraft are one of the major applications of these small, light weight, one hand Thor drills.



(Right) Typical use of a Thor U14 type drill—auto repair work. The U14 type $\frac{1}{4}$ " drills, are available in motor sizes, speeds, and switch styles for every application.



Straight Drills
U14CP

SPECIFICATIONS

U14CP Series

1/4" DRILLS

Size Number U14CP
Free Speed 2100 RPM
Length 8 1/8"
Weight 3 3/4 lbs.
Shipping Weight 5 1/2 lbs.
Code Word ENGAV
PRICE \$35.00

Size Number U17CP
Free Speed 800 RPM
Length 9 1/2"
Weight 4 1/4 lbs.
Shipping Weight 6 lbs.
Code Word ENGAY
PRICE \$40.00

Size Number U13CP
Free Speed 3000 RPM
Length 8 1/8"
Weight 3 3/4 lbs.
Shipping Weight 5 1/2 lbs.
Code Word ENGAT
PRICE \$40.00

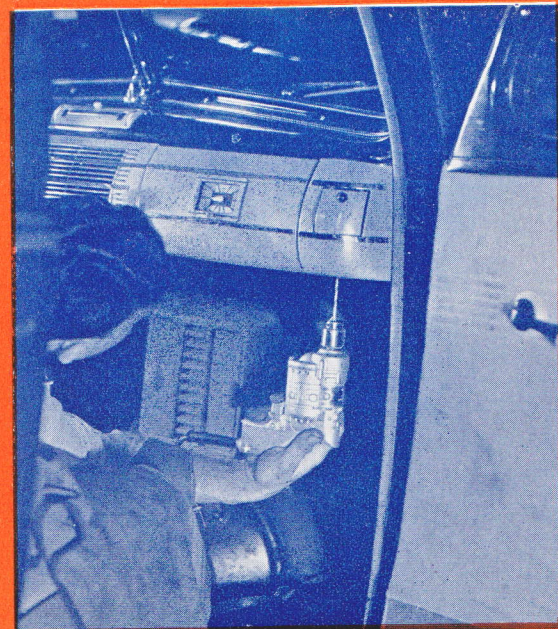
Size Number U15CP
Free Speed 4500 RPM
Length 8 1/8"
Weight 3 3/4 lbs.
Shipping Weight 5 1/2 lbs.
Code Word ENGAX
PRICE \$40.00

When ordering, specify voltage



Compactly built, the U14 type Thor drills get into close quarters with unusual ease. Handles are carefully designed for accurate, easy handling.

Despite their light weight, the Thor U14 drills are designed and built for continuous production work.



Thor

PORTABLE ELECTRIC

$\frac{1}{4}$ " DRILLS

HEAVY PRODUCTION, $\frac{1}{4}$ in. Capacity—U14F Series

These new U14F Series drills, which supplement the U14AP and U14CP series, are designed and built for extra heavy duty service. In these new drills are incorporated the power reserve and the ruggedness of construction necessary for continuous, gruelling production work. Larger and more powerful, the new motor of these "F" type drills develops greater power than either the U14AP type or the U14CP type. Yet, for all their extra power, these drills retain the compactness and handling ease that characterize all the Thor drills of this design.

The motor fan expels maximum of ventilating air with very minimum of exhaust noise. Armature with fan is perfectly balanced, both statically and dynamically. Stator is rigidly clamped in position by two long clamp screws. Centerplate, of heavy section design, maintains perfect alignment between upper and lower armature bearings.

The spindle is extremely large in diameter in proportion to its length, thereby preventing whipping action. Sturdy brush holders, die cast of aluminum, are free from distortion. Highly efficient Thor tangential ventilation. Ball bearings are used throughout, each with a high load factor over actual requirement.

$\frac{1}{4}$ " CAPACITY DRILLS. One model, the U14F at 2500 R.P.M., has speed and torque ideal for general, heavy production service. Two faster models are also available: U12F at 3750 R.P.M., and U13F at 5000 R.P.M. for fast drilling on lighter materials.

HANDLE AND SWITCH STYLES

PISTOL GRIP HANDLE with trigger switch. For either continuous or intermittent drilling. Motor operates while trigger is depressed; shuts off instantly when trigger is released. For continuous drilling the switch can be locked by a pin conveniently located on the side of the grip. Models with this switch are: U14F, U12F, U13F.

SIDE HANDLE with momentary trigger switch. For either intermittent or continuous drilling. Switch is automatically opened when switch trigger is released; latch pin permits locking for continuous operation. Models are designated: U14FS, U12FS, U13FS.

EQUIPMENT

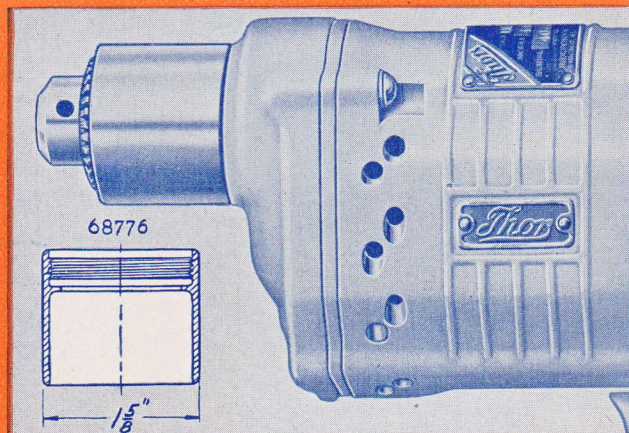
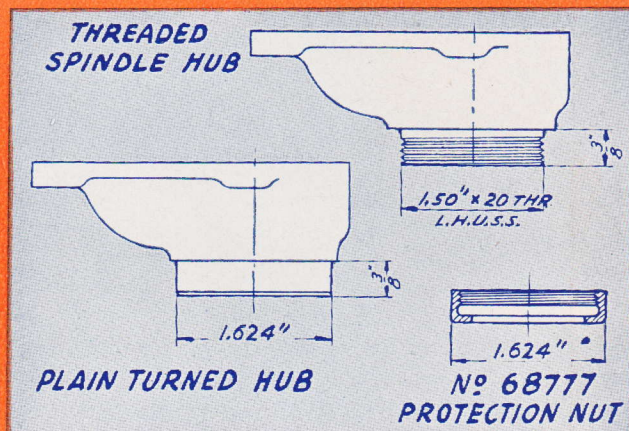
STANDARD—3-Jaw Jacobs Chuck and key. 3-conductor cable with ground wire and plug. Pistol grip handle with trigger switch or side handle with momentary trigger switch, as specified. 14FS, U12FS, and U13FS are equipped with rubber bumper rings to protect finished surfaces.

OPTIONAL—Plain turned or threaded spindle hub gear cases. See below.

EXTRA—Protecting sleeve for chuck. Protection nut. See below.

See page 30 for Drill Accessories.

SPECIAL GEAR CASE ARRANGEMENTS



Plain Turned and Threaded Spindle Hubs

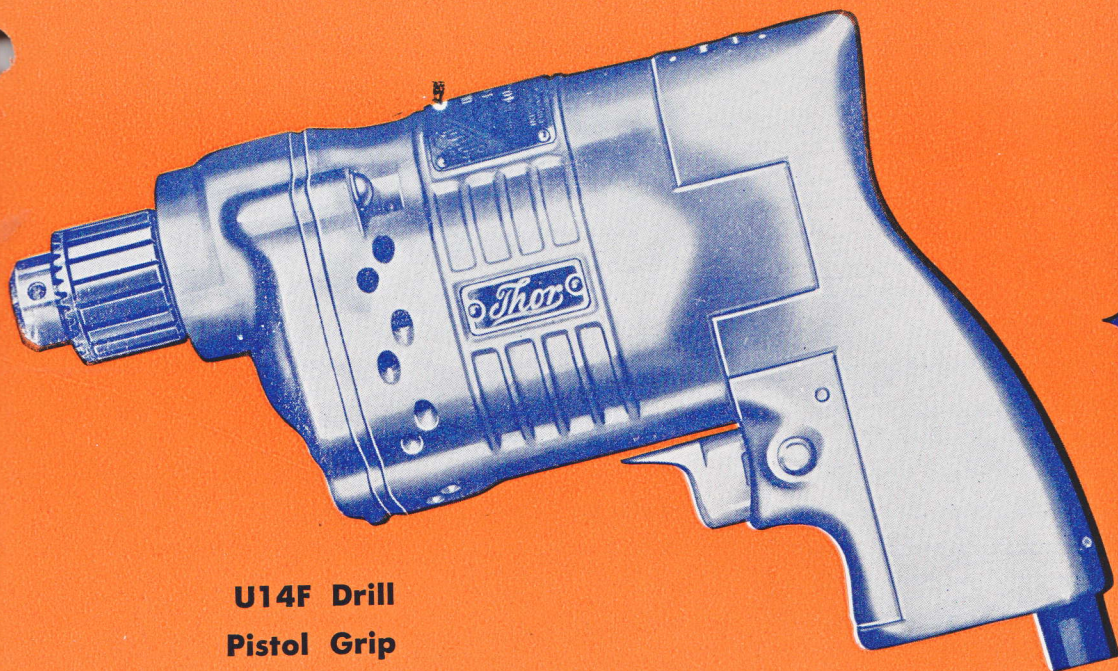
When centering devices, stops, guides and the like are to be attached to any of the U14A, -AP, -CP, -F and -FS Series Drills, drills can be furnished with either plain turned or threaded spindle hubs. If specified, hubs can be supplied plain turned in $\frac{3}{8}$ " width, diameters from $1\frac{1}{4}$ " to $1\frac{3}{8}$ "; in threaded style in $\frac{3}{8}$ " width, in diameters from $1\frac{3}{8}$ " to $1\frac{1}{2}$ ". (Only maximum diameters apply to U14A, -AP and -CP Series Drills.)

No. 68777 Protection Nut for $1\frac{1}{2}$ " diameter thread.85c extra

Protecting Sleeve for Chuck

No. 68776 Protecting Sleeve for Chuck is used on the high speed drills in the series mentioned, when the machine must be so held that the operator's hand may accidentally come in contact with the chuck. Protecting sleeve screws into the 1.50 "x 20 LHUSS threaded gear case covering chuck so that operator cannot burn his hand by unintentionally touching rotating chuck.

No. 68776 Protecting Sleeve.....\$1.35 extra



**U14F Drill
Pistol Grip**

SPECIFICATIONS

U14F Series

1/4" DRILLS

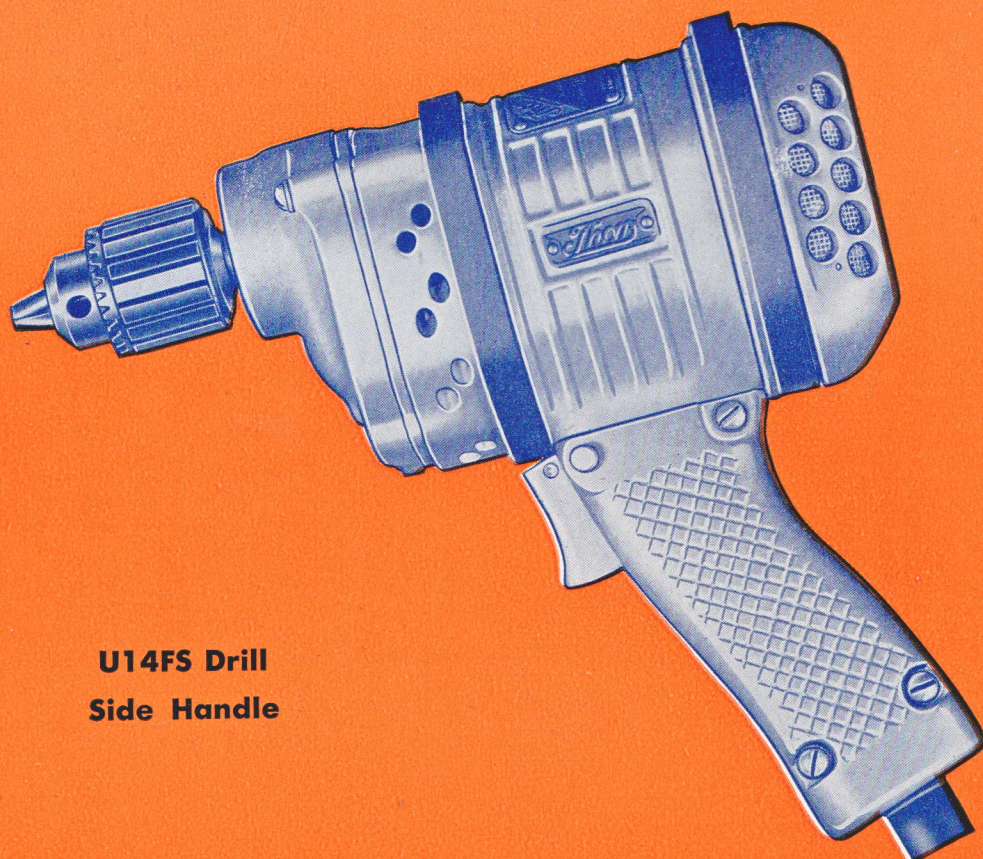
Pistol Grip

Size Number U14F
Free Speed 2500 RPM
Length 8 3/4"
Net Weight 3 3/4 lbs.
Shipping Weight 6 lbs.
Code Word ENRAJ
PRICE\$38.00

Size Number U12F
Free Speed 3750 RPM
Length 8 9/16"
Net Weight 3 3/4 lbs.
Shipping Weight 6 lbs.
Code Word ENRAV
PRICE\$38.00

Size Number U13F
Free Speed 5000 RPM
Length 8 9/16"
Net Weight 3 3/4 lbs.
Shipping Weight 6 lbs.
Code Word ENRAK
PRICE\$38.00

When ordering, specify voltage



**U14FS Drill
Side Handle**

SPECIFICATIONS

U14FS Series

1/4" DRILLS

Side Handle

Size Number U14FS
Free Speed 2500 RPM
Length 7 1/2"
Net Weight 4 3/8 lbs.
Shipping Weight 7 lbs.
Code Word ENRAR
PRICE\$38.00

Size Number U12FS
Free Speed 3750 RPM
Length 7 1/4"
Net Weight 4 1/4 lbs.
Shipping Weight 7 lbs.
Code Word ENRAX
PRICE\$38.00

Size Number U13FS
Free Speed 5000 RPM
Length 7 1/4"
Net Weight 4 1/4 lbs.
Shipping Weight 7 lbs.
Code Word ENRAP
PRICE\$38.00

When ordering, specify voltage

Thor

PORTABLE ELECTRIC

$\frac{3}{16}$ DRILLS

Size UKC Drill is designed and powered basically for the hardest kind of steady production duty. The casings are of liberal section aluminum castings, with very heavy bridge for supporting the upper armature bearing, and a similarly heavy hub in centerplate for lower armature bearing for maintaining perfect alignment. Both bearings for armature are oversize capacity ball bearings, the upper being clamped in the case and to the armature shaft, preventing end play in armature. Lower armature bearing bore is steel bushed to eliminate possibility of distortion of the aluminum from gear thrust. Spindle rotates in a hardened bronze bushing of extreme length, giving maximum support and assuring a true running spindle over a long, continuous service period. A heavy

HEAVY PRODUCTION, $\frac{3}{16}$ in. Capacity—UK Series

The UKC is a medium weight drill of rugged design made for drilling screw holes in hard wood, and high speed metal drilling up to $\frac{3}{16}$ ". It is recommended for the hardest type of production work in manufacturing plants where large numbers of small holes are to be drilled.

ball thrust-bearing absorbs spindle end thrust. Gears are made of nickel-chromium alloy steel with substantial tooth design, heat treated for extreme toughness and long life. The sturdy switch is of the momentary type, opening automatically upon release of switch plunger.

EQUIPMENT

STANDARD—3-Jaw Jacobs Chuck and key. Closed grip handle with momentary type plunger switch. 3-conductor cable with ground wire and plug.

OPTIONAL—Bonnet cap instead of grip handle for close quarter work; specify UKB.

See page 30 for drill accessories.

Thor

PORTABLE ELECTRIC

$\frac{1}{4}$ DRILLS

Designed throughout for steady production duty, these tools have housings and centerplates sturdily reinforced at all points of stress, insuring perfect bearing alignment and proper meshing of reduction gears. Motor is surplus powered with ample reserve over requirement. The armature revolves on large, oversize ball bearings. Reduction gears are of highest grade, nickel-chromium, alloy steel. Heavy ball bearing absorbs spindle thrust preventing end play. Thor tangential ventilation keeps

HEAVY DUTY, $\frac{1}{4}$ in. Capacity—UK Series

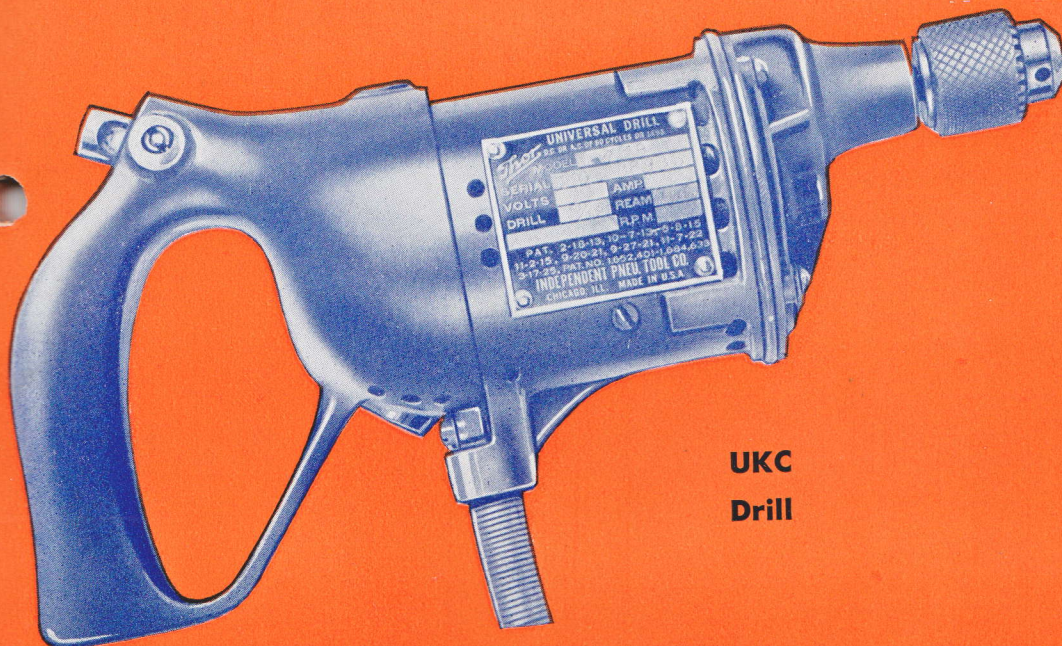
The UKD drill is designed for heavy duty service up to its rated capacity in production work. The UKHG is a low-speed, heavy-duty drill especially geared down for production drilling in stainless steel and similar hard materials. Structural characteristics are the same as standard UK type machines.

motor running cool. Momentary contact switch, in closed grip handle, opens automatically when plunger is released; can be locked for continuous operation.

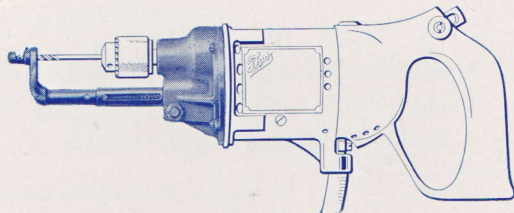
EQUIPMENT

STANDARD—3-Jaw Jacobs Chuck and key. 3-conductor cable with ground wire and plug. Closed grip handle with momentary plunger switch.

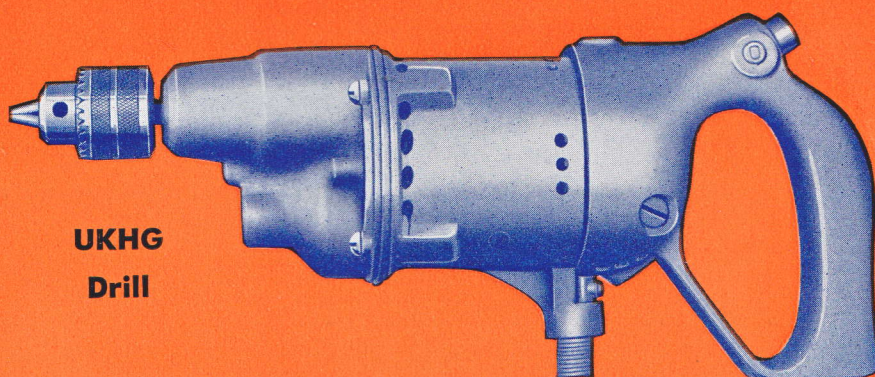
See page 30 for drill accessories.



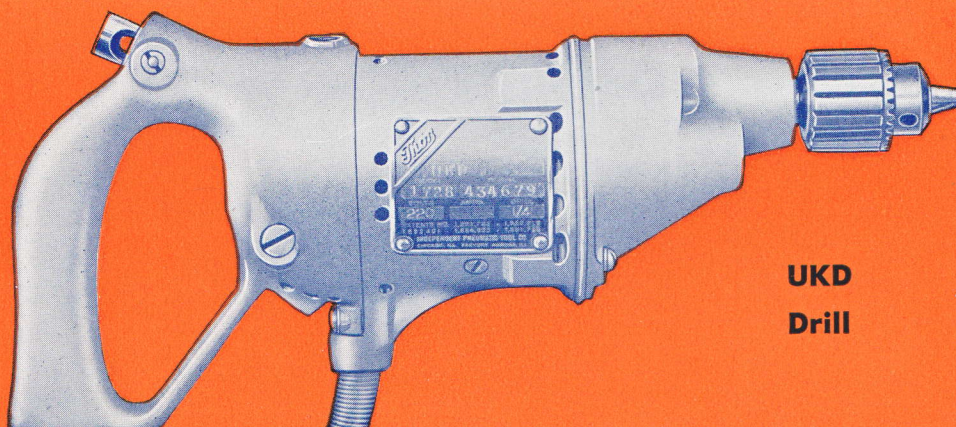
**UKC
Drill**



**UKCC } Drills—with Center
UKDC } and Stop Device**



**UKHG
Drill**



**UKD
Drill**

SPECIFICATIONS

UKC 3/16" DRILL

Size Number UKC

Capacity 3/16"

Free Speed 3200 RPM

Length 11 3/8"

Net Weight 5 1/2 lbs.

Shipping Weight 7 lbs.

Code Word KAYCE

PRICE \$42.00

When ordering, specify voltage

SPECIFICATIONS

UKD & UKHG 1/4" DRILLS

Size Number UKD

Capacity 1/4"

Free Speed 1400 RPM

Length 12 1/2"

Net Weight 5 1/2 lbs.

Shipping Weight 9 lbs.

Code Word KAYDA

PRICE \$36.00

Size Number UKHG

Capacity 1/4"

Free Speed 400 RPM

Length 12 1/2"

Net Weight 5 7/8 lbs.

Shipping Weight 9 lbs.

Code Word KAYAG

PRICE \$40.00

When ordering, specify voltage

Thor

PORTABLE ELECTRIC

$\frac{5}{16}$ " DRILLS

Casings of the UAD are of very heavy section aluminum alloy castings, strongly reinforced in the connecting flanges and in the journal bosses. Motor and commutator inspection is facilitated by a quickly removable grip handle which is held by two hinged bolts.

Armature is anchored against floating, being clamped to the inner race of its upper bearing by a nut and lock washer while the bearing itself is clamped in the case by its outer race. Both upper and lower armature bearings are highest grade ball bearings of large over capacity, the upper being supported in a heavy bridge cast in one piece with the field case.

Gears are of high grade alloy steel with very sturdy tooth design, heat treated for toughness and long service life, and rotate in heavy roller bearings. Spindle is of

HEAVY DUTY, $\frac{5}{16}$ in. capacity—UAD

A light weight machine of $\frac{5}{16}$ " metal drilling capacity, constructed and powered for steady, production service in manufacturing plants, machine shops and such. Also admirably suited for repair service in garages and for general maintenance work. Of extremely strong design, the UAD is provided with a highly efficient motor which delivers a liberal reserve of power over any requirement within the rated capacity of the machine.

large diameter in proportion to length, free from whipping action, sturdily supported by a radial roller bearing; a ball thrust bearing dissipates all end thrust. Motor brushes are rectangular, set in box type brush holders and fed to commutator with accurately measured tension.

Switch is momentary type, two-pole, operated by a trigger, the release of which automatically opens the switch.

EQUIPMENT

STANDARD—3-Jaw Jacobs Chuck and key. 3-conductor cable with ground wire and plug. Closed grip handle with momentary trigger switch.

See page 30 for drill accessories.

Thor

PORTABLE ELECTRIC

$\frac{3}{8}$ " DRILLS

Casings of the UBD are of heavy section aluminum alloy castings, strongly reinforced at points of stress.

The armature is anchored against floating, the shaft being clamped by a nut and lock washer to the inner race of the upper bearing, which in turn is clamped by its outer race in the case. Both armature ball bearings are highest grade, of large over capacity, the upper bearing being rigidly supported in a heavy bridge cast in one piece with field case.

Gears, rotating in heavy roller bearings, are of very strong tooth design, made of high grade alloy steel, heat treated for maximum toughness and service life. Spindle is free from whipping action, being of large diameter

HEAVY PRODUCTION, $\frac{3}{8}$ in. capacity—UBD

A sturdy, yet light weight machine of $\frac{3}{8}$ " metal drilling capacity, the UBD is built for continuous production duty in manufacturing plants, machine shops, for structural work in bridge building, shipbuilding and the like. Also suited for severe maintenance operations. The UBD's highly efficient motor delivers ample reserve of power over capacity requirement.

in relation to length and sturdily supported by a radial roller bearing and a ball thrust bearing which dissipates end thrust.

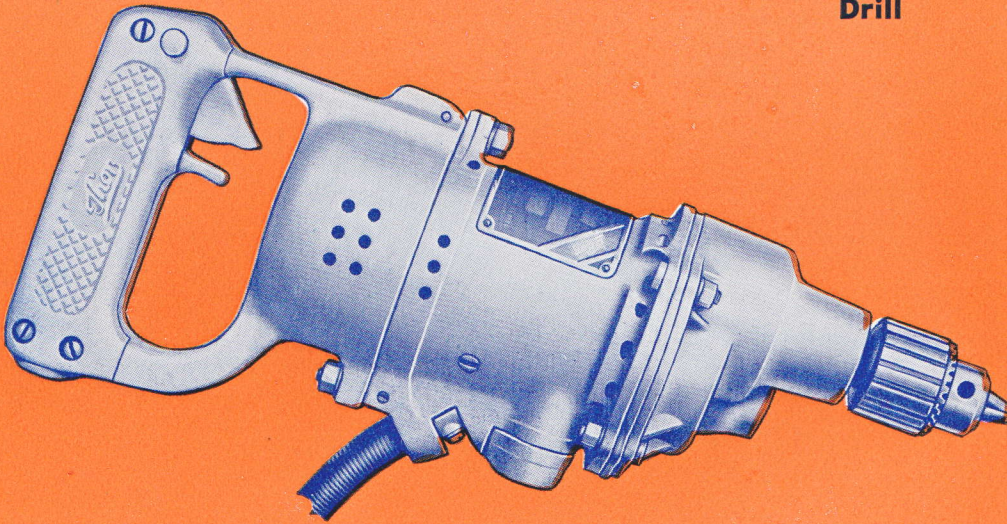
Switch is momentary type, two-pole, operated by a trigger, the release of which automatically opens the switch.

EQUIPMENT

STANDARD—3-Jaw Jacobs Chuck and key. 3-conductor cable with ground wire and plug. Closed grip handle with momentary trigger switch.

OPTIONAL—A side switch can be furnished for the UBD at no extra cost; specify UBB.

See page 30 for drill accessories.



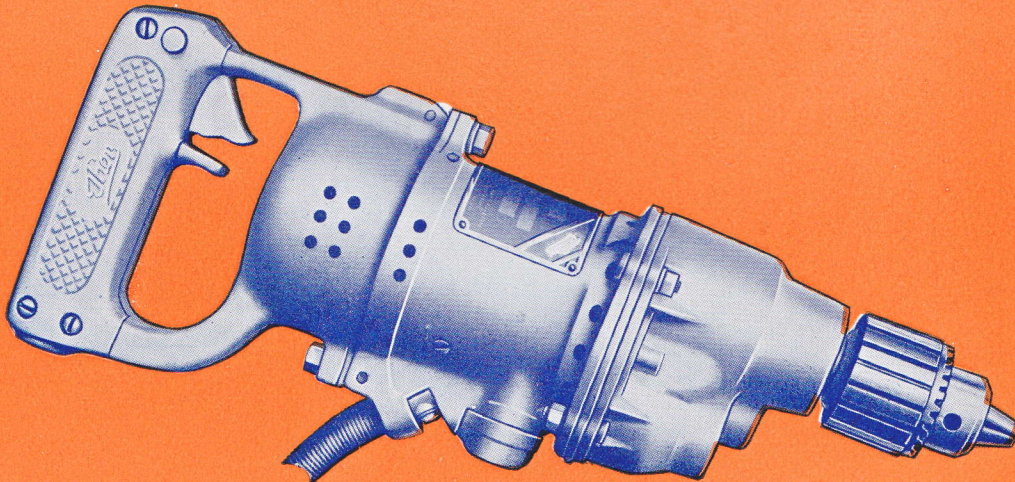
**UAD
Drill**

SPECIFICATIONS

**UAD
5/16" DRILL**

Size Number	UAD
Capacity	5/16"
Free Speed	1700 RPM
Length	13 3/8"
Net Weight	7 1/2 lbs.
Shipping Weight	12 lbs.
Code Word	EDAYO
PRICE	\$50.00

When ordering, specify voltage



**UBD
Drill**

SPECIFICATIONS

**UBD
3/8" DRILL**

Size Number	UBD
Capacity	3/8"
Free Speed	750 RPM
Length	14 1/8"
Net Weight	8 3/4 lbs.
Shipping Weight	13 lbs.
Code Word	ENDER
PRICE	\$55.00

When ordering, specify voltage

Thor

PORTABLE ELECTRIC

$\frac{1}{4}$ " DRILLS

The Drill Champion is light in weight and easy to handle. Its streamlined, torpedo-like design enables it to be used in awkward, hard-to-reach places. It has the most efficient motor ever put in a tool of its price class; greater overload capacity assures dependable power and long life. Oil-lite, self-lubricating bearings and special, alloy steel gears cushion shock loads and provide smooth, quiet operation. Field case, handle and gear case are made of die-cast, aluminum alloy for strength and light weight. The recessed, thumb-control switch is of two-pole construction and is protected against grounds

LIGHT DUTY, $\frac{1}{4}$ in. Capacity — The "Drill Champion"

The Thor Drill Champion is the first low priced drill to be built in the fine tool tradition. It brings to every tool user the opportunity for fine tool ownership with proven performance features unparalleled in drills of this price. Designed for light duty, intermittent service, it is ideal for all maintenance work, automotive repair, electrical installation, plumbing, radio, cabinet work, and similar applications in wood or metal.

and shorts. The Drill Champion can be used with smaller size Hole Saws and other accessories to perform many other jobs besides drilling, making the ideal drill for the tool kit.

EQUIPMENT

STANDARD— $\frac{1}{4}$ " 3-jaw Jacobs Chuck and key. Closed grip handle with recessed, thumb-control switch. 3-conductor cable with ground wire and plug.

See page 30 for drill accessories.

Thor

PORTABLE ELECTRIC

$\frac{1}{2}$ " DRILLS

The Drill Champion's motor is the most efficient ever put into a tool of its price class, its greater overload capacity assuring dependable power and long life. Strength and light weight are provided by the die-cast aluminum alloy housing. Self-lubricating bearings and special, alloy-steel gears cushion loads and assure smooth, quiet operation. Cool running is secured through ample slot-draft ventilation. All parts are readily accessible for easy servicing. The spindle speed of the Drill Champion is most practical for a general-purpose, light-duty, $\frac{1}{2}$ "

LIGHT DUTY, $\frac{1}{2}$ in. Capacity — The "Drill Champion"

Like the $\frac{1}{4}$ " Drill Champion described above, this is a low-priced $\frac{1}{2}$ " capacity drill built in Thor's fine tool tradition. Designed for light duty, intermittent work, the light weight and compact design of the $\frac{1}{2}$ " Drill Champion permit its use in maintenance and field installation work; all-around shop service and occasional light production work.

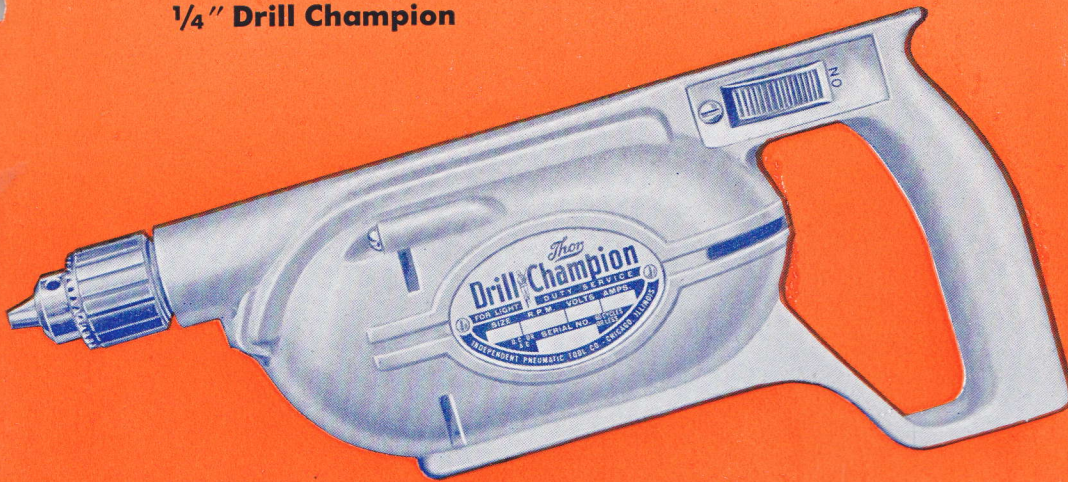
drill. Here is plenty of power for tough drilling with speed and torque that is ideal not only for drilling, but also for driving Hole Saws, wood augers and other accessories.

EQUIPMENT

STANDARD— $\frac{1}{2}$ " 3-Jaw Jacobs Chuck with key. Spade handle with chuck key holder. Trigger switch, side-handle with locking pin. Removable dead handle. 3-conductor cable with ground wire and plug.

See page 30 for drill accessories.

1/4" Drill Champion



SPECIFICATIONS

DRILL CHAMPION

1/4" DRILL

Free Speed 2000 RPM

Length 11 3/4"

Net Weight 4 lbs.

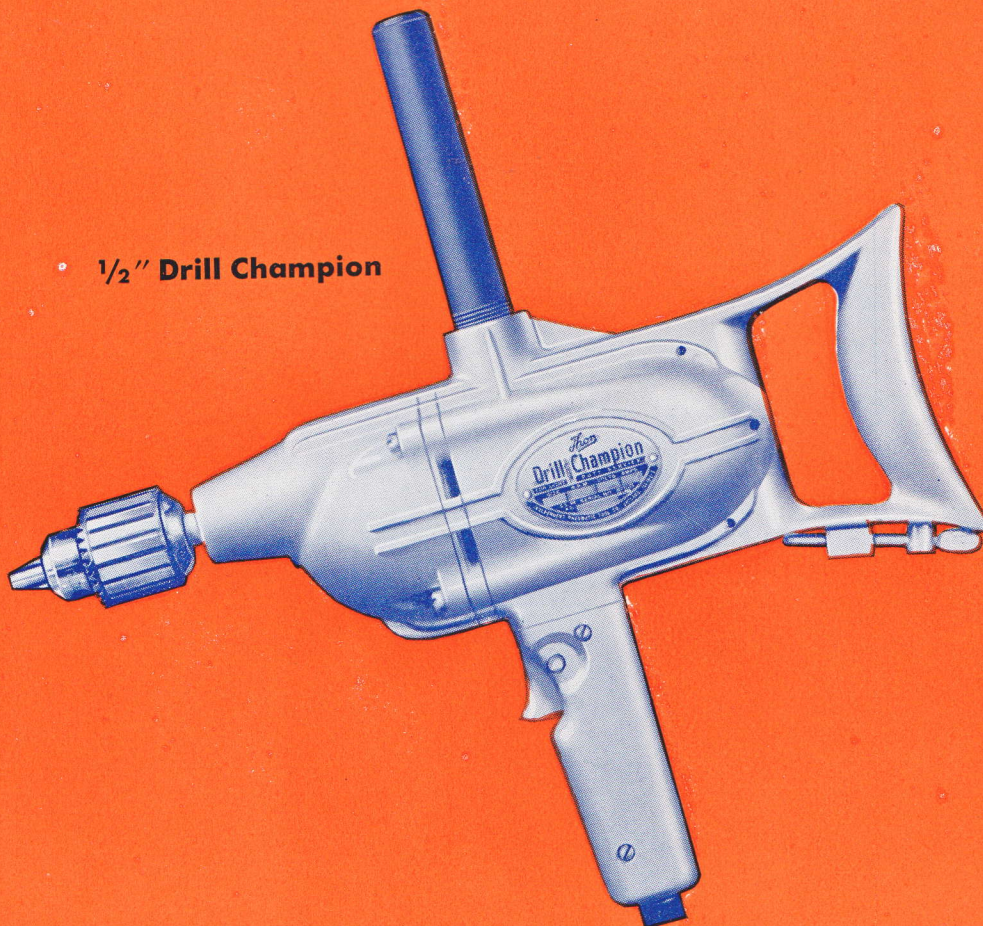
Shipping Weight 6 lbs.

Code Word ELDRI

PRICE \$19.95

When ordering, specify voltage

1/2" Drill Champion



SPECIFICATIONS

DRILL CHAMPION

1/2" DRILL

Free Speed 420 RPM

Length 15"

Net Weight 9 1/2 lbs.

Shipping Weight 15 lbs.

Code Word ELDRO

PRICE \$35.00

When ordering, specify voltage

Thor

PORTABLE ELECTRIC

$\frac{1}{2}$ " DRILLS

HEAVY DUTY, $\frac{1}{2}$ in. Capacity—U44

The Thor U44 is the original close-coupled, smaller, lighter, half-inch electric drill. It is a heavy-duty tool, designed for continuous service on hard production jobs. Incorporating pre-proved features of design and construction, this machine is one of Thor's outstanding achievements in nearly half-a-century of leadership in portable power tool manufacturing. No other half-inch electric drill can give you such compact power and light weight convenience nor provide such efficiency for production or maintenance drilling operations.

Compactly designed, the casings of the U44 are very strongly reinforced at all points of load stress and handling strain. This compact construction includes the use of short reduction gear and spindle shafts which are very heavy in diameter in proportion to length, resulting in elimination of all whipping action to produce smooth, vibrationless operation. Helical, alloy steel gears and full ball-bearing construction provide a maximum of gear and bearing life.

THE ARMATURE in the Thor U44 is large in proportion to the tool size, thoroughly insulated against grounds and short circuits.

THE COMMUTATOR is constructed to allow for uniform expansion and contraction caused by heat. This construction prevents loose or raised bars and floating segments . . . insures longer trouble-free service.

BRUSHES—the design of the U44 permits the use of extra long "pigtail" brushes which provide perfect flow of current to and from the armature.

EQUIPMENT

STANDARD— $\frac{1}{2}$ " 3-Jaw Jacobs Chuck and Key. Horizontal spade handle. Side handle with lever switch that can be locked for continuous operation. 3-conductor cable with ground wire and plug.

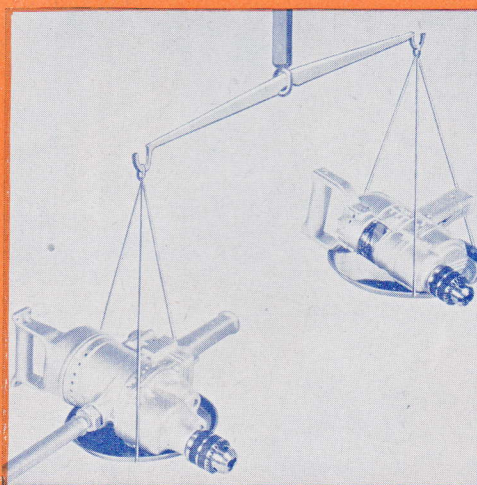
OPTIONAL—For detachable dead handle, specify U44 with lug and dead handle. No. 1 or No. 2 Morse Taper Socket instead of Chuck, if specified.

See page 30 for drill accessories.

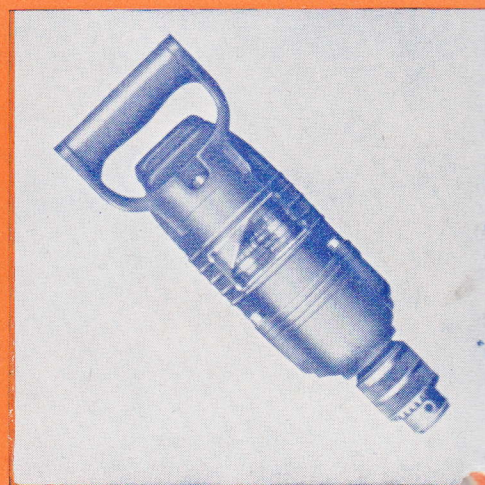
HALF the weight...in HALF the space...POWERFUL as tools TWICE the size



LOOK AT THE DIFFERENCE. The Thor U44 is only half as large as old style $\frac{1}{2}$ " drills. It's easy to use in those hard-to-get-at places.

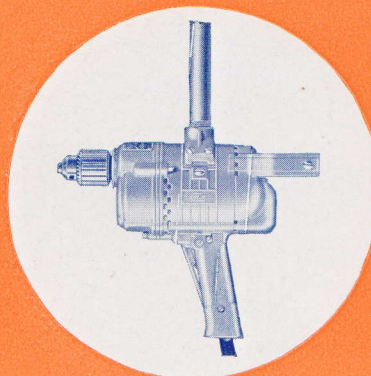
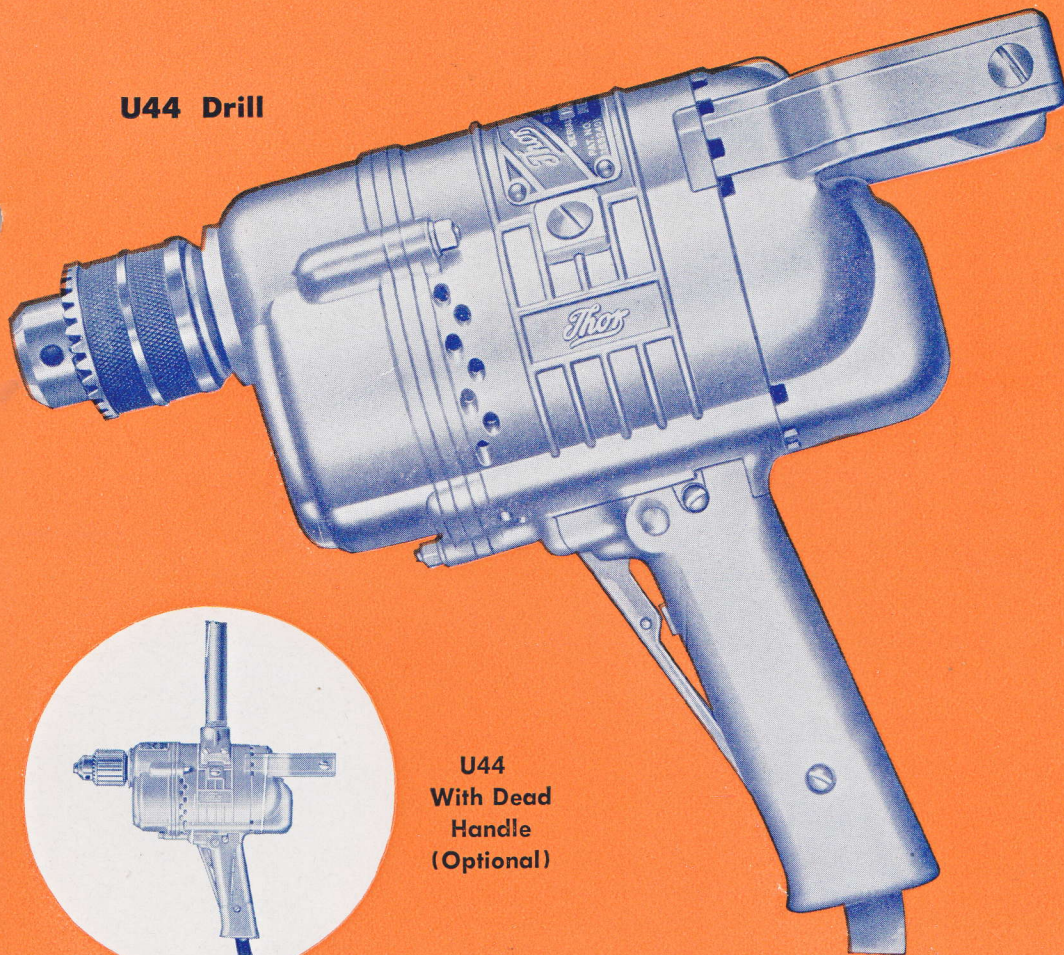


HALF THE WEIGHT. The Thor U44 eliminates half the bulk and dead weight of old style $\frac{1}{2}$ " drills . . . brings new handling ease.



STREAMLINED DESIGN. The Thor U44 can be used in close quarters because of its modern design and compact construction.

U44 Drill



**U44
With Dead
Handle
(Optional)**

SPECIFICATIONS

U44

1/2" DRILL

Size Number U44

Capacity 1/2"

Free Speed 500 RPM

Length 12"

Net Weight 9 1/2 lbs.

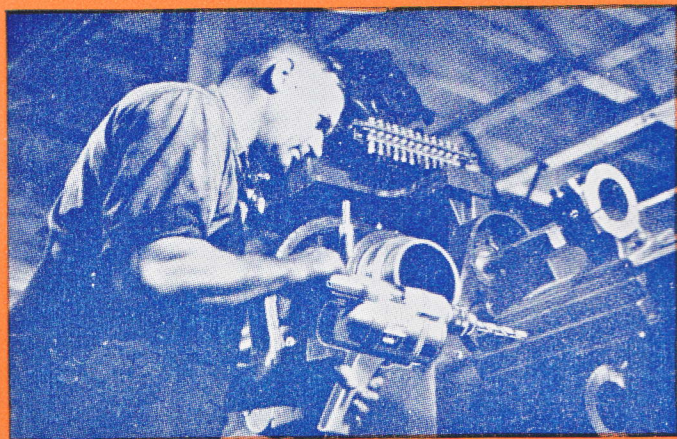
Shipping Weight 13 lbs.

Code Word ENFOR

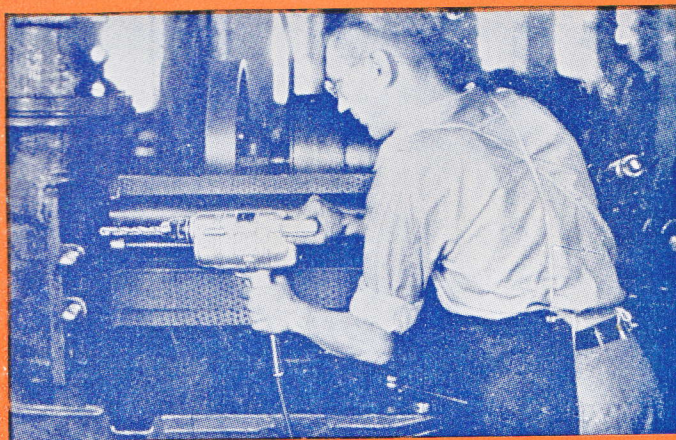
PRICE \$59.50

When ordering, specify voltage

NEW HANDLING EASE... GREATER ACCURACY... FOR HEAVY-DUTY SERVICE



PRODUCTION—With the small, light, powerful Thor U44 the operator has complete control of the drill for greater accuracy and safety in all drilling.



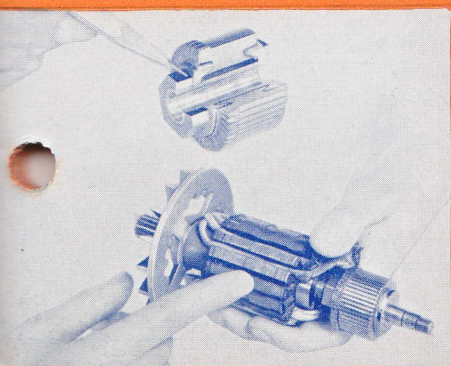
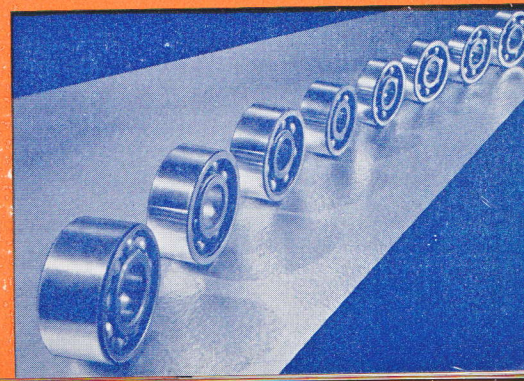
MAINTENANCE—Compact design and light weight give the Thor U44 unequalled portability and handling ease for maintenance service.

THOR MOTOR DESIGN GIVES

the U44 the power and stamina of tools twice its size to insure cost-cutting performance.

FULL BALL BEARING CONSTRUCTION

Every moving part of the Thor U44 revolves on two of eight over-size, precision ball bearings.



Thor

PORTABLE ELECTRIC

$\frac{1}{2}$ " , $\frac{9}{16}$ " DRILLS

The UDA and UDB have a heavy duty motor with a large reserve of power. Armature revolves on oversize ball bearings of highest grade; reduction gears operate in heavy roller bearings. The spindle is rigidly supported by ball thrust bearing and roller radial bearing. Housings are made of heavy section, strongly reinforced against load stresses and strains of rough service. Gears are of highest grade alloy steel, with strong tooth design, heat treated for maximum toughness and service life. Thor tangential ventilation insures cool running.

HEAVY DUTY, $\frac{1}{2}$ in. and $\frac{9}{16}$ in. Capacities—UDA & UDB

These are exceptionally rugged, ball-bearing tools designed for deep drilling where great power and strength are required. The UDA can be used for the most severe operations for continuous $\frac{1}{2}$ " production drilling. The UDB is geared to slower speed with increased torque for heavy-duty $\frac{9}{16}$ " drilling. Both are light in weight, compact and perfectly balanced for utmost handling ease.

EQUIPMENT

STANDARD—3-Jaw Jacobs Chuck and key. Side handle with off-and-on switch. Spade handle. Dead handle. 3-conductor cable with ground wire and plug.

OPTIONAL—Feed screw can be furnished instead of **STANDARD** spade handle, if specified; or at **EXTRA CHARGE** of \$6.00 when ordered in addition to spade handle, as equipment with tool.

See page 30 for drill accessories.

Thor

PORTABLE ELECTRIC

$\frac{5}{8}$ " DRILLS

Powered by universal motors with ample reserve, these tools offer greater efficiency and improved handling. An outstanding feature of these units is the bearing construction. The spindle is supported rigidly by both ball thrust and roller radial bearings. Gears rotate on roller bearings. Armature rotates on heavy-duty, precision ball bearings. Gears are of strong tooth design, made of nickel-chromium alloy steel, heat treated for toughness and durability. All housings are of heavy section aluminum castings, heavily reinforced at stress points. Switch, of off-and-on type, has high overload capacity.

STANDARD & HEAVY DUTY, $\frac{5}{8}$ in. Capacity—UDC & UEN

The UDC is recommended for ordinary types of heavy duty drilling up to its capacity; for general, all-around work and for the heavier type of maintenance work. The UEN is designed for exceptionally heavy duty drilling, reaming, and wood boring; it is best suited for applications like drilling and counter-sinking auto frameworks, reaming rivet holes in truck bodies, and in bridge and building construction.

EQUIPMENT

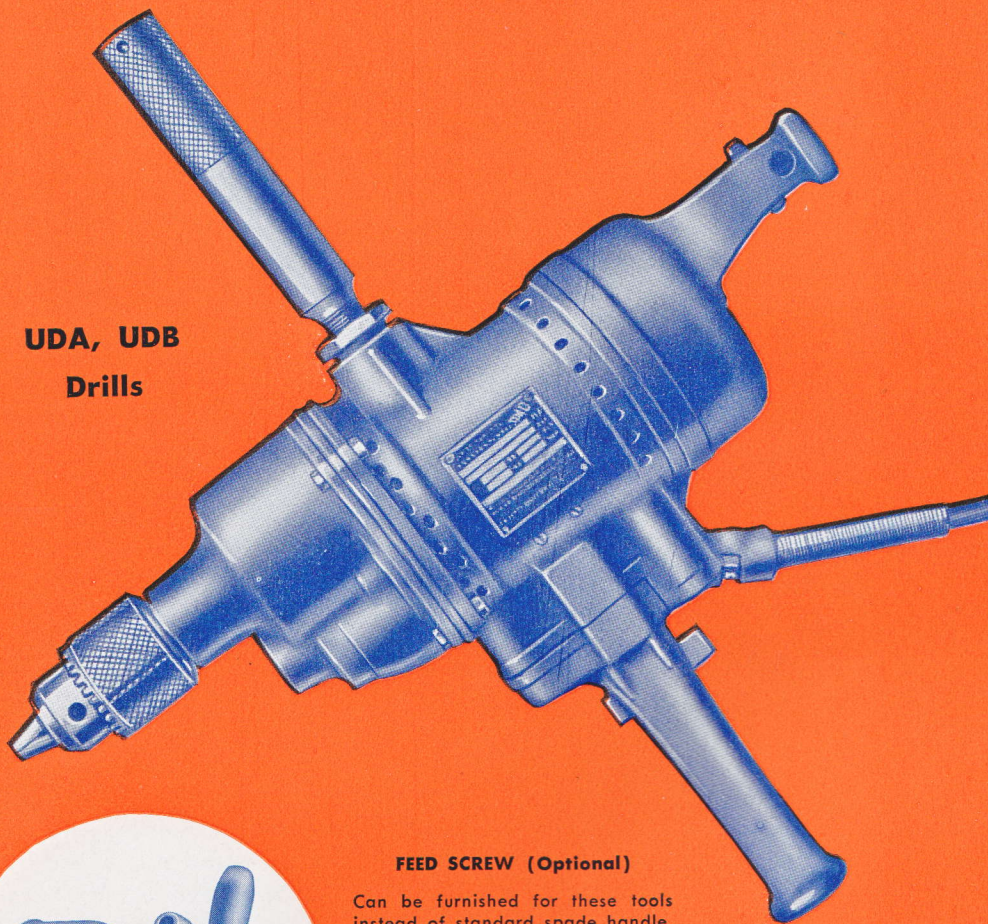
STANDARD—The UDC is equipped with a 3-Jaw Jacobs Chuck and key. Side handle with off-and-on switch. Spade handle. Dead handle. 3-conductor cable with ground wire and plug.

The UEN is equipped with either a No. 2 Morse Taper Socket or $\frac{5}{8}$ " Jacobs chuck, as specified. Spade handle. Side handle with off-and-on switch. Dead handle. 3-conductor cable with ground wire and plug.

OPTIONAL—Feed screw can be furnished instead of **STANDARD** spade handle, if specified; or at **EXTRA CHARGE** of \$6.00 when ordered in addition to spade handle, as equipment with tool.

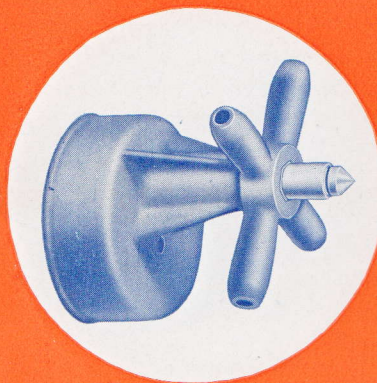
See page 30 for drill accessories.

**UDA, UDB
Drills**

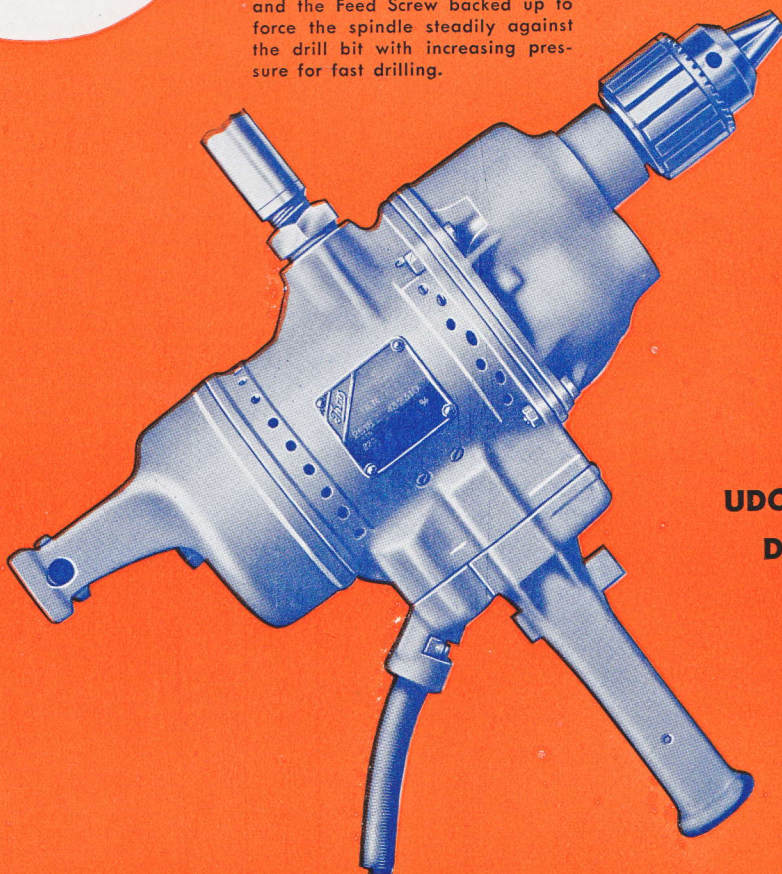


FEED SCREW (Optional)

Can be furnished for these tools instead of standard spade handle, if specified.



A Feed Screw enables operator to apply required pressure against spindle while maintaining alignment for drilling. The Feed Screw point is set against a solid surface and the Feed Screw backed up to force the spindle steadily against the drill bit with increasing pressure for fast drilling.



**UDC, UEN
Drills**

SPECIFICATIONS

UDA & UDB

1/2" & 9/16" DRILLS

Size Number UDA
Capacity 1/2"
Free Speed 500 RPM
Length 16 1/2"
Net Weight 21 lbs.
Shipping Weight 30 lbs.
Code Word ENDUA
PRICE\$72.00

Size Number UDB
Capacity 9/16"
Free Speed 600 RPM
Length 16 1/2"
Net Weight 21 lbs.
Shipping Weight 30 lbs.
Code Word ENDUB
PRICE\$74.00

When ordering, specify voltage

SPECIFICATIONS

UDC & UEN

5/8" DRILLS

Size Number UDC
Capacity 5/8"
Free Speed 600 RPM
Length 16 1/2"
Net Weight 22 3/4 lbs.
Shipping Weight 30 lbs.
Code Word ENDUD
PRICE\$76.00

Size Number UEN
Capacity 5/8"
Free Speed 400 RPM
Length 16 3/4"
Net Weight 22 3/4 lbs.
Shipping Weight 30 lbs.
Code Word ENEUE
PRICE\$85.00

When ordering, specify voltage

Thor

PORTABLE ELECTRIC

$\frac{3}{4}$ " DRILLS

Both UES and UFH have extremely powerful motors with ample reserve over capacity rating, the UFH being powered higher for the heavier duty, higher speed service. Armatures revolve on high grade, oversize ball bearings. Gearing, rotating in heavy roller bearings, is made of nickel chromium alloy steel with strong tooth design, heat treated for toughness and maximum service life. Spindles are rigidly supported by ball thrust and roller radial bearing. Size UFH spindle, to compensate for higher speed, has an additional very large ball bearing at lower end. Switches, of large oversize capacity, are the straight on-and-off type most suitable for continuous production drilling service.

HEAVY DUTY, $\frac{3}{4}$ in. Capacity—UES & UFH

These drills are designed for continuous production work where powerful, heavy duty tools are required. The UES is preferred for structural steel work, in boiler shops, in ship building yards and where sturdy machines of low spindle speed are used. The UFH is recommended for the heavier jobs of $\frac{3}{4}$ " drilling where its higher speed makes it more suitable.

EQUIPMENT

UES: STANDARD—Side handle with on-and-off switch. Spade handle. Dead handle. No. 2 Morse Taper Socket. 3-conductor cable with ground wire and plug.

OPTIONAL—No. 3 Morse Taper Socket or $\frac{3}{4}$ " Jacobs Chuck can be furnished, if so specified. Feed Screw can be substituted for spade handle.

UFH: STANDARD—Side handle with momentary switch which shuts off the current the instant operator's grasp is released. Spade handle. Dead handle. No. 2 Morse Taper Socket. 3-conductor cable with ground wire and plug.

OPTIONAL— $\frac{3}{4}$ " Jacobs Chuck can be furnished instead of Morse Taper socket. Feed Screw can be substituted for Spade Handle.

See page 30 for drill accessories.

Thor

$\frac{7}{8}$ ", 1" DRILLS
AND REAMERS

Both tools are of heavy duty construction throughout with high powered motors, the UFZ being the more powerful. Armature rotates on oversize capacity ball bearings of highest quality. Spindle is supported rigidly by ball thrust and roller radial bearings. Gears rotate in heavy roller bearings. Gears are of nickel-chromium alloy steel; heavy tooth section combined with heat treatment for extreme toughness results in maximum service life. Strongly reinforced casings contribute to long service life; extended handle gives perfect control. Large, oversize capacity switch of off-and-on type assures dependable performance in continuous operation.

HEAVY DUTY, $\frac{7}{8}$ in. and 1 in. Capacities—UFS & UFZ

Constructed ruggedly to withstand the hardest kind of continuous production or maintenance service, these two tools are, nevertheless, comparatively light in weight. Power, speed and torque adapt these units to extra heavy drilling in manufacturing, steel construction, fabrication and other heavy goods industries, as well as in railroad shops and on heavy construction work.

EQUIPMENT

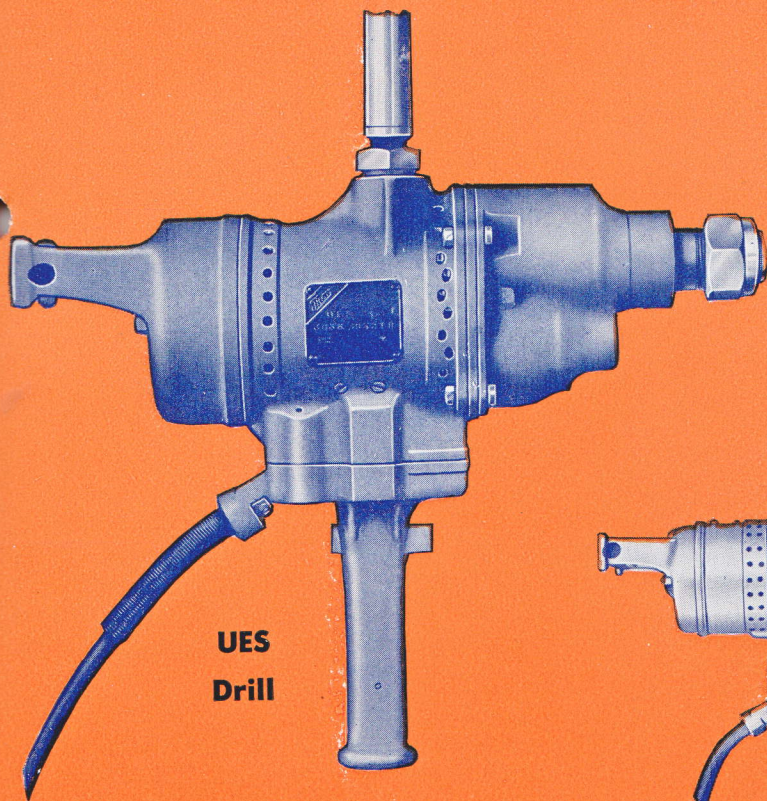
UFS: STANDARD—Side handle with momentary switch which shuts off current the instant operator's grasp is released. Spade handle. No. 2 Morse Taper Socket. Dead handle. 3-conductor cable with ground wire and plug.

OPTIONAL—Feed Screw can be substituted for Spade Handle; No. 3 Morse Taper Socket for No. 2.

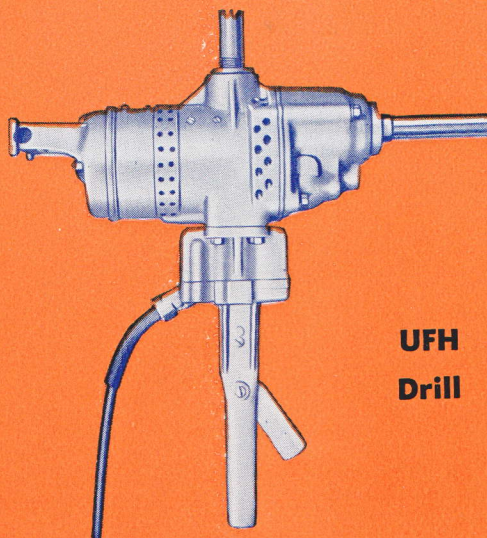
UFZ: Same as UFS, except that No. 3 Morse Taper Socket is standard.

Feed screw can be furnished in place of STANDARD spade handle, if specified; or at EXTRA CHARGE of \$6.00 when ordered in addition to spade handle, as equipment with tool.

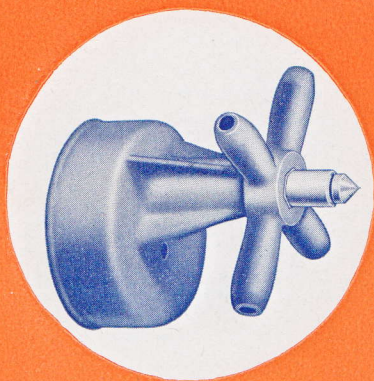
See page 30 for drill accessories.



**UES
Drill**

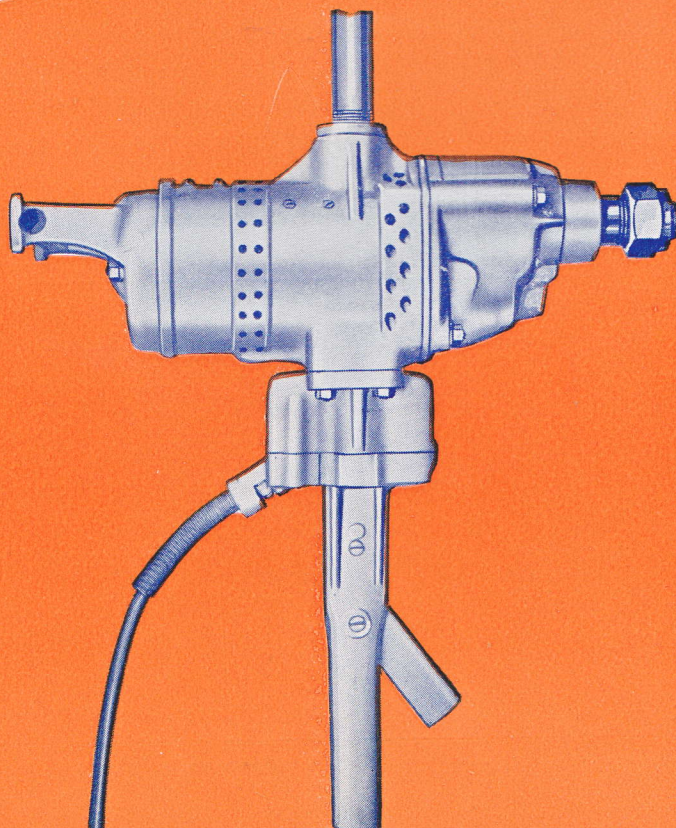


**UFH
Drill**



FEED SCREW

can be furnished for all these tools instead of standard spade handle if so specified.



**UFS,
UFZ
Drills**

SPECIFICATIONS

UES & UFH

$\frac{3}{4}$ " DRILLS

Size Number	UES
Capacity	$\frac{3}{4}$ "
Free Speed	330 RPM
Length	16 $\frac{3}{4}$ "
Net Weight	22 lbs.
Shipping Weight	33 lbs.
Code Word	ENUES
PRICE	\$85.00

Size Number	*UFH
Capacity	$\frac{3}{4}$ "
Free Speed	550 RPM
Length	18 $\frac{3}{4}$ "
Net Weight	25 $\frac{3}{4}$ lbs.
Shipping Weight	39 lbs.
Code Word	ENFUH
PRICE	\$95.00

When ordering, specify voltage
*Not available in 32-volt.

SPECIFICATIONS

UFS & UFZ

$\frac{7}{8}$ " & 1" DRILLS

Size Number	*UFS
Drilling Capacity	$\frac{7}{8}$ "
Reaming Capacity	9/16"
Free Speed	350 RPM
Length	16 $\frac{7}{8}$ "
Weight	25 $\frac{1}{4}$ lbs.
Shipping Weight	39 lbs.
Code Word	ENFUS
PRICE	\$96.00

Size Number	*UFZ
Drilling Capacity	1"
Reaming Capacity	11/16"
Free Speed	300 RPM
Length	20"
Net Weight	29 lbs.
Shipping Weight	39 lbs.
Code Word	ENFUZ
PRICE	\$115.00

When ordering, specify voltage
*Not available in 32-volt.

Thor

1 1/4" DRILLS AND REAMERS

Extreme strength is featured throughout the U3Z, in casings and working parts, to absorb the shocks of severe service. Motor is powered for large reserve against possible overloads. Armature revolves on very heavy, highest grade ball bearings. Reducing gears of nickel-chromium, alloy steel, designed for maximum tooth strength and heat treated for toughness and long wearing qualities rotate in heavy roller bearings. Spindle rigidly supported by both ball thrust and roller radial bearings. Has safety-type, quick-acting, lever-switch which opens instantly when lever is released. This switch, of Thor construction, is of oversize capacity with all parts separately renewable.

HEAVY DUTY, 1 1/4 in. Capacity—U3Z

This is the most powerful universal electric drill in the Thor line. It is a sturdy, heavy-duty tool designed for the heaviest type of drilling and reaming under the most severe conditions in bridge construction, ship yard work, the erection of heavy machinery, and power and generating plant installations.

EQUIPMENT

STANDARD—Thor Quick-Acting Safety Switch in extended side handle. Feed Screw. Dead Handle. No. 3 Internal Morse Taper Socket and knock-out pin. 3-conductor cable with ground wire and plug.

OPTIONAL—Spade handle in place of Feed Screw, if so specified.

This tool can also be made for Direct Current only, if desired.

See page 30 for drill accessories.

Thor

DRILL STANDS

BENCH AND POST STANDS for Mounting Thor Electric Drills

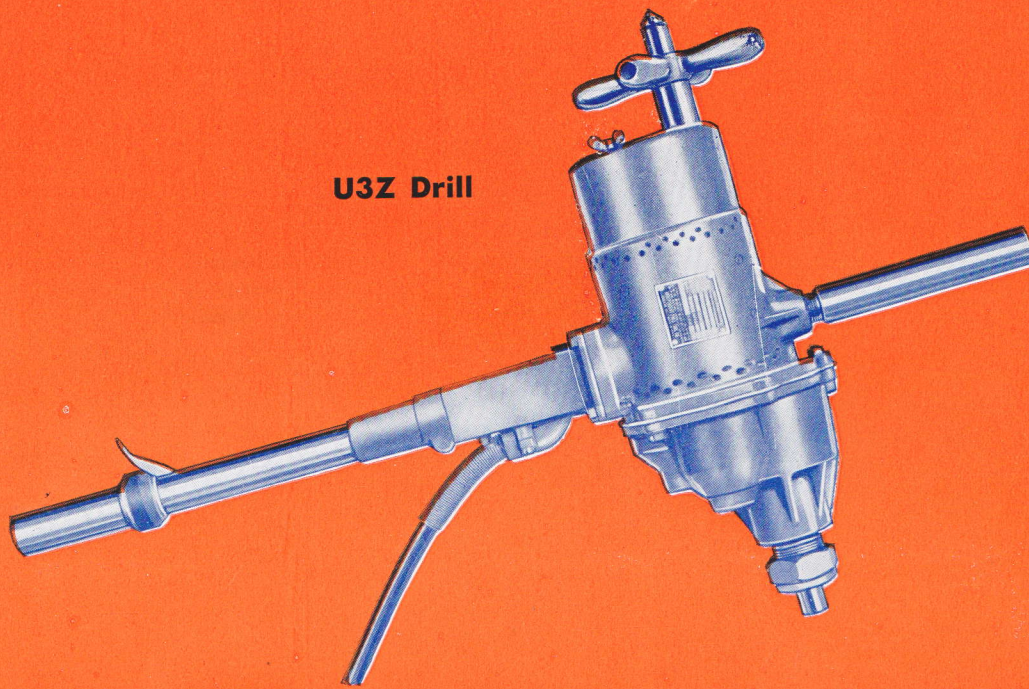
These stands, which extend the scope of application of Thor Electric Drills to stationary as well as portable service, are so built that one stand will accommodate several different tools by use of a variety of mounting brackets. In addition, the drill and stand combination have the necessary vertical adjustment and vertical movement to handle very satisfactorily many stationary service jobs where the extreme sensitivity of the drill press is not required.

SPECIFICATIONS

Stand Number	8			DS5	26	30
To Accommodate Drills	U13 Class U14 Class U15 Class U17 Class	UL UK UA UB	U44	Drill Champ. (1/2 ")	UDA, UDB, UDC, UEN, UES, UFH, UFS, UFZ	UDA, UDB, UDC, UEN, UES, UFH, UFS, UFZ
Vertical Movement	2"	3"	3 3/4 "	5"	5"	5"
Adjusted Vertically	11"	9"	10"	14"	14"	14"
Bench Space	13"x9"	11 1/2"x9 1/2 "	13"x9"	15"x9"	15"x9"	.....
Distance, Wall to Center of Drill . . . . .	.....	.....	.....	.....	.....	14 1/2 "
Weight, pounds	29	32	30	50	50	68
Shipping Weight, lbs.	47	47	47	60	60	80
Code Word	ELSOR			ELINU	ENOXE	ENOXY
PRICE	\$22.00			\$22.00	\$32.00	\$36.00

When ordering Stands, specify size number of tool to be accommodated.

U3Z Drill



Spade Handle
(Optional, in
place of
Feed Screw)

SPECIFICATIONS

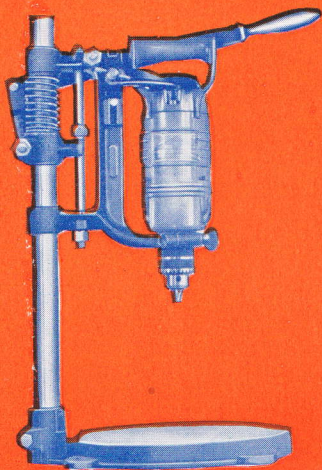
U3Z

1 1/4" DRILL

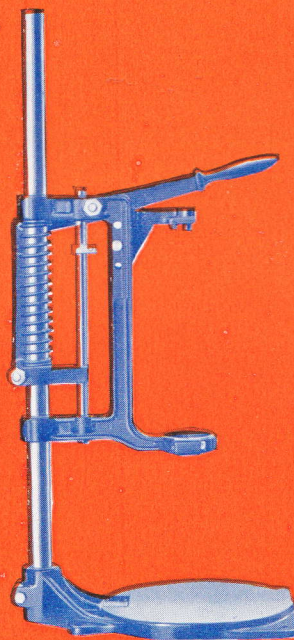
Size Number U3Z
Drilling Capacity 1 1/4"
Reaming Capacity 1 1/8"
Free Speed *350 RPM
Length 19 7/8"
Net Weight 49 1/2 lbs.
Shipping Weight 71 lbs.
Code Word ENDUE
PRICE \$150.00

*Can also be furnished at a speed of 500 RPM, at no extra cost, if specified.

When ordering, specify voltage

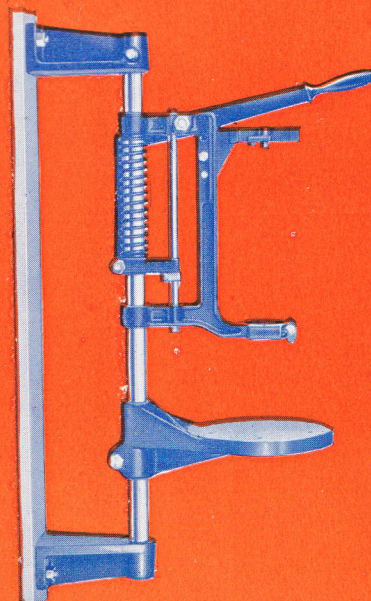


No. 8
Bench Stand



No. 26
Bench Stand

No. 30
Post Stand

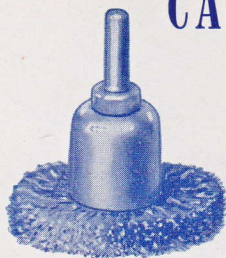


DRILL STANDS

The rigid clamping arrangements and the sturdy construction of Thor Drill Stands insure accuracy in operation. Six-to-one leverage allows easy application of tremendous pressure which can be fed slowly and smoothly for accurate work. Available in the Bench Type for all sizes of drills up to 1" capacity, Thor Drill Stands are also available for drills of 1/2" capacity and up as a Post Type Stand, provided with heavy brackets for clamping to a wall or column.

Thor

ACCESSORIES FOR PORTABLE ELECTRIC DRILLS



No. 64427 Side Flare
Brush, for close corner
work\$1.50 each

CARBON REMOVING BRUSHES

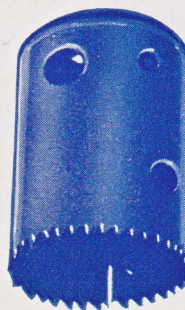
These carbon removing brushes have a wide variety of uses. Designed primarily for automobile cylinder head carbon cleaning, they quickly remove the hardest carbon deposit. They are also used to effectively remove burrs, paint, rust, and the like. Tempered steel wire, $\frac{1}{4}$ " shank. Can be used on any tool equipped with a chuck.



No. 64438 Solid Wire
Cable Twist Brush....
.....\$1.50 each

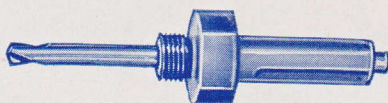
HOLE SAWS

These hole saws cut clean holes $\frac{3}{4}$ " to $3\frac{1}{2}$ " in diameter and $1\frac{1}{4}$ " deep through steel, wood, cast iron, brass, copper, bakelite, marble, and other materials. Great time savers in cutting holes in floors, panels, walls, switch boxes, radiators, boilers, sinks, tubs, soil pipes; for pipe and conduit entrance holes; for drilling for pipe taps, and similar applications.



Hole Saws Only—Without Arbors

Catalog No.	Saw Size, Diameter Inches	Each	Use With Arbor No.	Use for Pipe Tap, Pipe Size	Use for Pipe Entrance, Pipe Size
12	$\frac{3}{4}$	\$0.75	1	...	$\frac{3}{8}$
14	$\frac{7}{8}$	.75	1	$\frac{3}{4}$	$\frac{1}{2}$
16	1	.75	1	...	...
18	$1\frac{1}{8}$	.85	1	1	$\frac{3}{4}$
20	$1\frac{1}{4}$	.85	1	...	...
22	$1\frac{3}{8}$	.85	2	...	1
24	$1\frac{1}{2}$	1.00	2	$1\frac{1}{4}$	...
26	$1\frac{5}{8}$	1.00	2	...	...
28	$1\frac{3}{4}$	1.25	2	$1\frac{1}{2}$	$1\frac{1}{4}$
30	$1\frac{7}{8}$	1.25	2	...	...
32	2	1.25	2	...	$1\frac{1}{2}$
33	$2\frac{1}{8}$	1.75	2	...	...
34	$2\frac{1}{8}$	1.75	2	...	...
36	$2\frac{1}{4}$	1.75	2	2	...
38	$2\frac{3}{8}$	1.75	2	...	...
40	$2\frac{1}{2}$	1.75	2	...	2
42	$2\frac{5}{8}$	1.75	2	$2\frac{1}{2}$	...
44	$2\frac{3}{4}$	1.75	2	...	...
46	$2\frac{7}{8}$	1.75	2	...	...
48	3	1.75	2	...	$2\frac{1}{2}$
50	$3\frac{1}{8}$	1.75	2	...	...
52	$3\frac{1}{4}$	1.75	2	3	...
56	$3\frac{1}{2}$	1.75	2	...	...

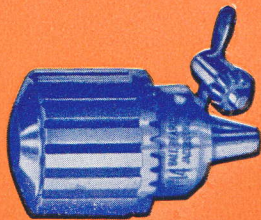


ARBORS ONLY

No. 1 Arbor, with shank to fit $\frac{1}{2}$ in. Drills and high speed steel pilot drill (for $\frac{3}{4}$ in. to $1\frac{1}{4}$ in. Hole Saws).....Each, \$1.50

No. 2 Arbor, with shank to fit $\frac{1}{2}$ in. Drills and high speed steel pilot drill (for $1\frac{1}{8}$ in. to $3\frac{1}{2}$ in. Hole Saws).....Each, \$1.50

STANDARD JACOBS CHUCKS



For Machine Size	Chuck Size	Chuck Number	Price	Chuck Key No.	Price
U13F, U13FS, U13K, U15A, U15AP (Optional for: U12F, U12FS, U12K, U13A, U13AP, U13CP, U14AR, U14ARP, U15CP)	3/16" Threaded 5/8" x 24 Thr.	66929	\$4.50	25017	\$0.50
U12F, U12FS, U12K, U13A, U13AP, U13CP, U14A, U14AP, U14AR, U14ARP, U14CP, U14D, U14DP, U14DR, U14DRP, U14K, U15CP, UKB, UKC, UKCC (Optional for: U13F, U13FS, U13K, U15A, U15AP)	1/4" Threaded 3/8" x 24 Thr.	25011	5.50	25017	.50
U14F, U14FS, U17A, U17AP, U17CP, UKD, UKDC, UKHG, 1/4" Drill Champion	1/4" Threaded 3/8" x 24 Thr.	20033	5.50	20034	.50
UAD	5/8" Threaded 3/8" x 24 Thr.	25076	5.50	25081	.50
UBD	3/8" Threaded 5/8" x 16 Thr.	20073	5.50	20039	.50
U44, U44H, 1/2" Drill Champion	1/2" Threaded 5/8" x 16 Thr.	25245	7.50	20039	.50
UDA	1/2" Threaded 5/8" x 16 Thr.	25252	9.00	20100	.50
UDB	5/8" Threaded 5/8" x 16 Thr.	20095	9.00	20100	.50
UDC UEN*	5/8" Threaded 5/8" x 16 Thr.	25207	9.00	20100	.50
UES* UFH	3/4" Threaded 5/8" x 16 Thr.	70488	12.00	70489	.75

*NOTE: Only for machines originally furnished with Chuck or external Morse Taper Socket.

KETT UNIVERSAL ATTACHMENT

This universal attachment makes it possible to drill quickly and accurately in joists, studs, rafters, beams, and other places ordinarily difficult or impossible to reach. For electricians, plumbers, steam fitters, and maintenance men it has proved a great time saver. For drilling in metal and wood.

The Kett Universal is available in two types:

The KU-1 is equipped with a telescopic extension which will enable operator to stand on floor and reach ceilings up to 10 feet in height.

The KU-2 is designed for shorter range, heavy duty applications.

The chuck on both units can be swung through 360° in any plane. Both attachments are light and carefully balanced for easy handling. Constructed of tough, high tensile aluminum castings. Equipped with heat treated gears and pinions. Bronze bearings with sealed lubrication throughout.

Kett Universals can be furnished for use with No. UDA 1/2" portable electric drill. With this drill, the KU-1 has a 1 1/4" capacity in wood; the KU-2, 2 inches.

Price, No. UDA Drill with KU-1 Attachment.....\$140.00

Price, No. UDA Drill with KU-2 Attachment..... 140.00

Morse Taper Shank Arbors

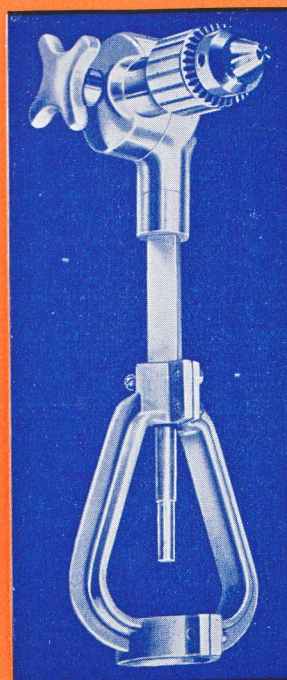
For Size Drill	Size Taper Socket	Thread	Number	Price
UEN, UES, UFS, UFZ, U3Z	No. 2 M. T.	5/8" x 16	70529	\$3.00
	No. 3 M. T.	5/8" x 16	70803	5.00

These arbors can be equipped with 5/8" (No. 25207) and 3/4" (No. 70488) Jacobs Chucks for use with straight round shank drills for drilling 3/4" and under with the machines indicated.

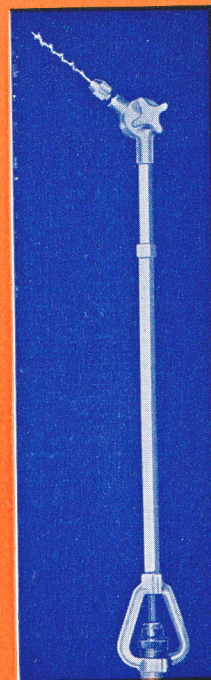
External Morse Taper Sockets



For Machine Size	Size Taper Socket	Thread	Number	Price
1/2" Drill Champion	No. 1 Morse Taper	5/8" x 16 Thr.	59335	\$2.55
U44, UDA, UDB, UDC, UEN*, UES*, UFH	No. 2 Morse Taper	5/8" x 16 Thr.	59441	2.55



KU-2



KU-1

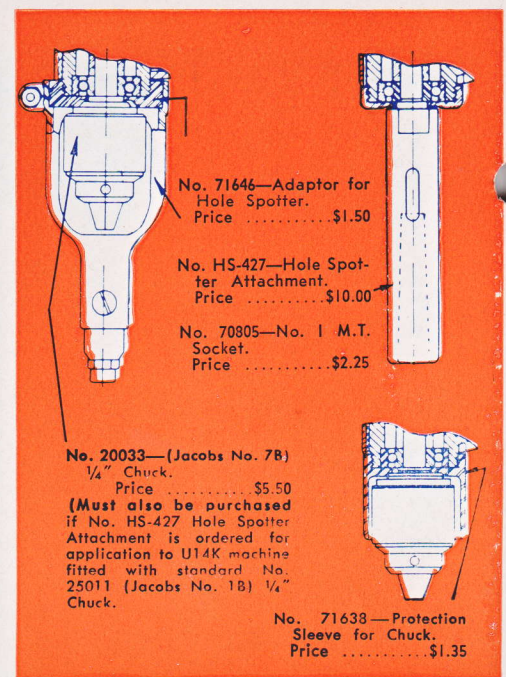
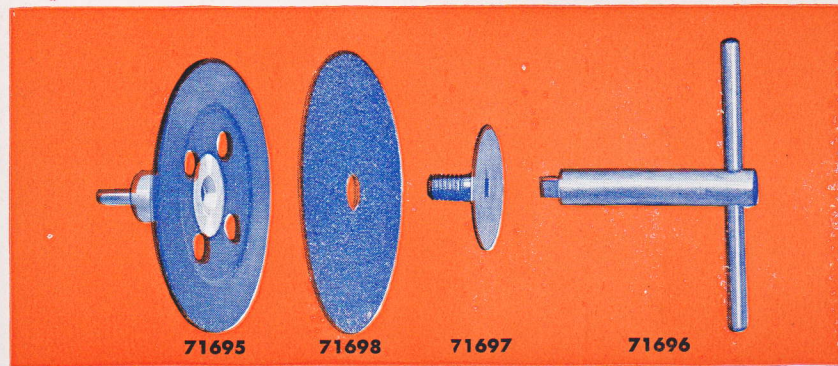
Thor

ACCESSORIES

FOR PORTABLE ELECTRIC DRILLS

FLEXIBLE SANDING PAD

- No. 71695—Flexible Pad, 4" diameter, with $\frac{1}{4}$ " diameter shank. Price...\$5.00
 No. 71696—Wrench for Clamp Nut for Pad. Price.....\$1.00
 No. 71697—Clamp Nut for Disc. Price\$1.00
 No. 71698—Abrasive Disc (éne, medium or coarse grade, as specified). Price\$0.15



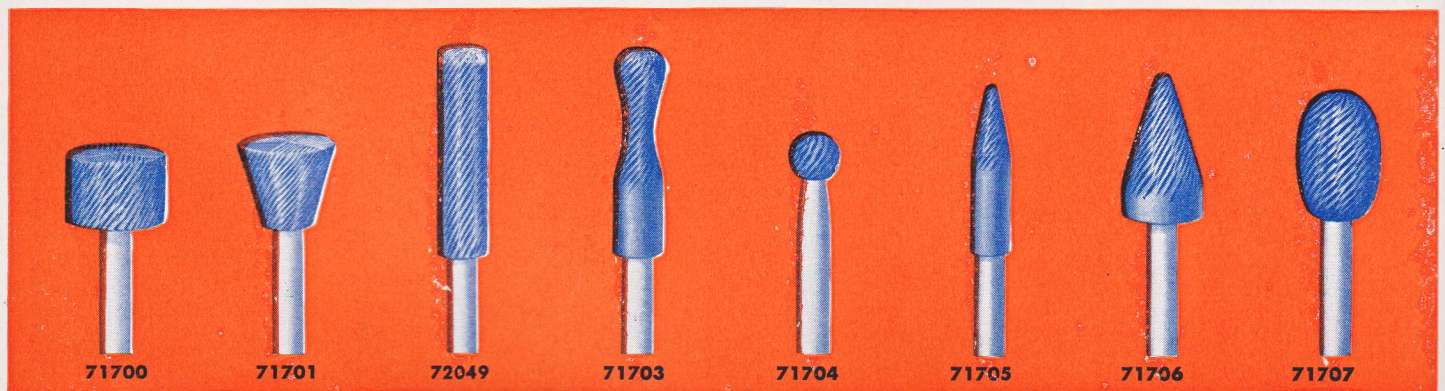
ROTARY FILES

No. 71699—Set of Rotary Files, medium cut, in wooden case, consisting of Nos. 71700 to 71707 inclusive. Price, case.....\$14.65

Rotary Files, medium cut, $\frac{1}{4}$ " diameter shank:

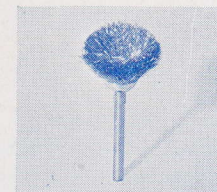
- No. 71700—Body diam. $\frac{3}{4}$ ", body length $\frac{1}{2}$ ", length overall $2\frac{1}{4}$ ". Price\$2.05
 No. 71701—Body diam. $\frac{3}{4}$ ", body length $\frac{5}{8}$ ", length overall $2\frac{1}{4}$ ". Price\$2.05
 No. 72049—Body diam. $\frac{3}{8}$ ", body length 1", length overall $2\frac{3}{4}$ ". Price\$1.70

- No. 71703—Body diam. $\frac{3}{8}$ ", body length $1\frac{1}{2}$ ", length overall $2\frac{1}{2}$ ". Price\$1.75
 No. 71704—Body diam. $\frac{3}{8}$ ", body length $\frac{3}{8}$ ", length overall $2\frac{1}{4}$ ". Price\$1.60
 No. 71705—Body diam. $\frac{5}{16}$ ", body length $1\frac{1}{4}$ ", length overall $2\frac{3}{4}$ ". Price\$1.60
 No. 71706—Body diam. $\frac{5}{8}$ ", body length 1", length overall $2\frac{3}{4}$ ". Price\$1.95
 No. 71707—Body diam. $\frac{5}{8}$ ", body length 1", length overall $2\frac{5}{8}$ ". Price\$2.05

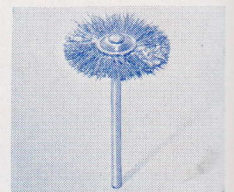


WIRE BRUSHES

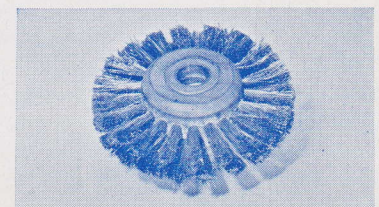
- No. 71708—Cup Wire Brush, $\frac{3}{4}$ " diameter, steel wire, permanently mounted on $\frac{3}{32}$ " diameter shank. Price.....\$0.25
 No. 71709—Cup Wire Brush, $\frac{3}{4}$ " diameter, brass wire, permanently mounted on $\frac{3}{32}$ " diameter shank. Price.....\$0.50
 No. 71710—Wire Wheel Brush, 1" diameter, steel wire, permanently mounted on $\frac{3}{32}$ " diameter shank. Price.....\$0.25
 No. 71711—Wire Wheel Brush, 1" diameter, brass wire, permanently mounted on $\frac{3}{32}$ " diameter shank. Price.....\$0.50
 No. 71712—Wire Wheel Brush, 2" diameter, steel wire (Use with No. 71715 Mandrel). Price\$1.60



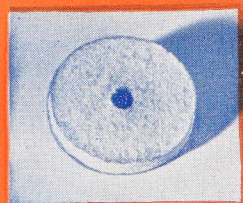
71708-9



71710-11



71712



71716



71716



71717



71718



71719

POLISHING WHEELS

No. 71716—Felt Polishing Disc, $\frac{1}{8}$ " thick, $\frac{1}{8}$ " hole, $\frac{7}{8}$ " or $\frac{5}{8}$ " diameter as specified. (Use with No. 71713 Mandrel). Price, each.....\$0.15 Box of 12.....\$1.00

No. 71717—Soft Rubber Polishing Wheel, $\frac{7}{8}$ " diameter, $\frac{1}{8}$ " thick, $\frac{1}{8}$ " hole, square edge. Fine, medium or coarse, as specified. (Use with No. 71713 Mandrel.) Price, Box of 12.....\$1.50

No. 71718—Soft Rubber Polishing Wheel, $\frac{5}{8}$ " diameter, $\frac{3}{32}$ " thick, $\frac{1}{8}$ " hole, square edge. Fine, medium or coarse, as specified. (Use with No. 71713 Mandrel.) Price, Box of 24.....\$1.50

SANDING DISCS

No. 71719—Sanding Discs, box of 525 assorted discs in $\frac{5}{8}$ ", $\frac{3}{4}$ " and $\frac{7}{8}$ " diameters and assorted grits. (Use with No. 71713 Mandrel.) Price, box.....\$0.75

SAWS

No. 71720—Saw for wood and light metals, $1\frac{1}{2}$ " diameter, $\frac{1}{4}$ " hole. (Use with No. 71714 Mandrel.) Price.....\$1.50

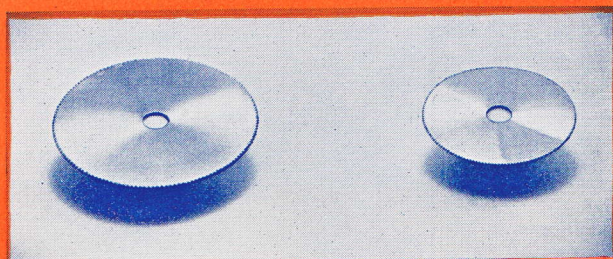
No. 71721—Saw for wood and light metals, 2" diameter, $\frac{1}{4}$ " hole. (Use with No. 71714 Mandrel.) Price.....\$1.50

MANDRELS

No. 71713—Mandrel, screw-top, $\frac{1}{8}$ " diameter shank, used with accessories having $\frac{1}{8}$ " hole. Price.....\$0.40

No. 71714—Mandrel, screw-top, $\frac{1}{8}$ " diameter shank, used with accessories having $\frac{1}{4}$ " hole. Price.....\$0.85

No. 71715—Mandrel with nut, $\frac{1}{4}$ " diameter shank, used with accessories having $\frac{5}{16}$ " hole. Price.....\$0.60

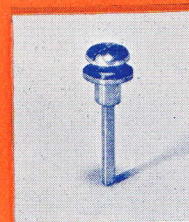


71721

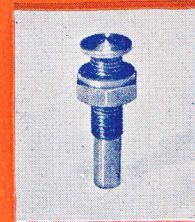
71720



71713



71714



71715

MOUNTED ABRASIVE WHEELS AND POINTS

Of vitrified bonded 66 aluminous oxide abrasive, for universal grinding service on most materials. Shank $\frac{1}{4}$ " diameter $\times$ 1" long:



71722
Price...\$0.69



71723
Price...\$1.23



71724
Price...\$0.54



71725
Price...\$0.54



71726
Price...\$0.66

No. 71727 Mounted Wheel, $1\frac{1}{2}$ " Diameter $\times$ $\frac{1}{2}$ " Thick, Not Illustrated

Thor

PORTABLE ELECTRIC

$\frac{1}{4}$ " , $\frac{3}{8}$ " TAPPERS

HEAVY DUTY, $\frac{1}{4}$ in. and $\frac{3}{8}$ in. Tapping Capacities

UKS and UBR

With Mechanical Reverse

These tools are particularly adapted to tapping thread holes on cabinets, refrigerators, radios, airplanes, automobiles, electric switch boxes, electric appliances, and other metal fabricating work. Tapping operations are performed 8 to 10 times faster than by hand.

Automatic reversing mechanism backs tap out of the threaded hole quickly. A slight pull on the tool disengages the forward action and throws it into reverse motion. The motor is not reversed; reverse action being attained by mechanical means only.

Powered throughout for continuous production service, the motor in each size has ample reserve over capacity requirements. Casings are of strong section, heavily reinforced at all points of stress. Armature revolves on oversize, precision ball bearings; long, bronze sleeve bearings support reducing gear shafts and spindle, with heavy ball bearing for spindle end thrust. Reducing gears, with strong tooth design, are of nickel-chromium, alloy steel, heat treated for toughness and long service. Thor tangential ventilation insures cool running motor.

EQUIPMENT

UKS—STANDARD— $\frac{5}{16}$ " Jacobs Tapping Chuck and key. 3-conductor cable with ground wire and plug. Closed grip handle with on-and-off plunger switch. Mechanical reverse.

UBR—STANDARD— $\frac{3}{8}$ " Jacobs Tapping Chuck and key. 3-conductor cable with ground wire and plug. Closed grip handle with momentary switch operated by a trigger, the release of which automatically opens the switch. Dead handle. Mechanical reverse.

UBR—EXTRA—Locking device for locking in either forward or reverse action; specify UBX. Available at additional cost of \$5.00.

SPECIFICATIONS

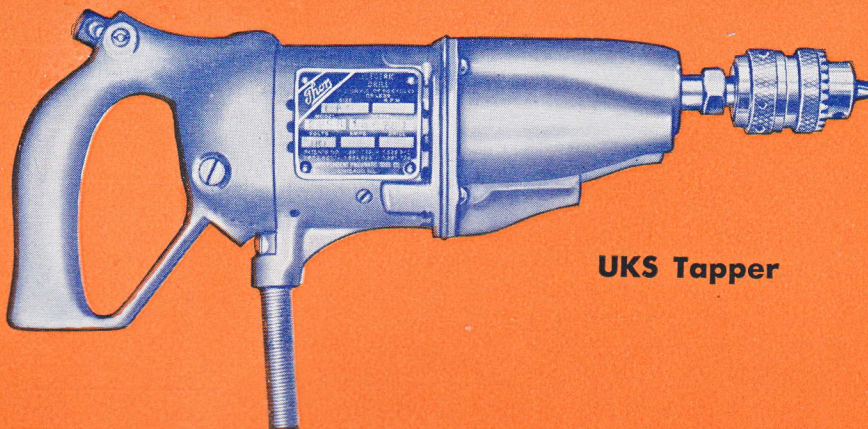
TAPPERS

Size Number UKS
Capacity $\frac{1}{4}$ " tap
(in steel)
Free Speed 460 RPM
Length $14\frac{3}{4}$ "
Weight $8\frac{1}{4}$ lbs.
Shipping Weight 11 lbs.
Code Word ECUKS
PRICE \$68.00

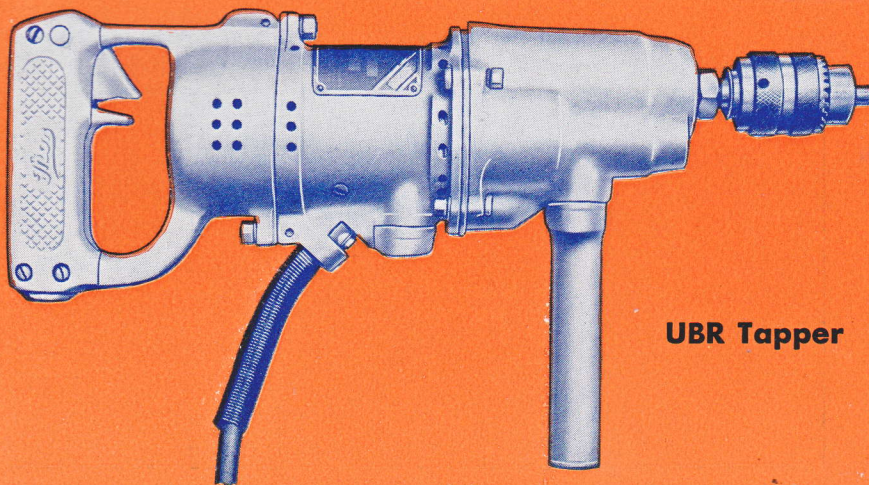
Size Number UBR
Capacity $\frac{3}{8}$ " tap
(in steel)
Free Speed 500 RPM
Length $16\frac{1}{4}$ "
Weight $11\frac{1}{2}$ lbs.
Shipping Weight 14 lbs.
Code Word ENBRU
PRICE \$85.00

Note: UBX, with locking Device available at additional cost of \$5.00.

When ordering, specify voltage



UKS Tapper



UBR Tapper



Thor

PORTABLE ELECTRIC

SCREWDRIVERS AND NUTSETTERS

Thor *invented* the electric screw driver. And since then Thor has continued to make improvements that have brought greater speed and greater accuracy to an operation that otherwise might be a costly bottleneck for industry. From the revolutionary Thor "Slip Clutch" and "Kick Out Attachment" to the new Thor "Pix-Up" Finder & Adjusto-Tray, Thor Engineers have made the solution of screw driving and nut setting problems a Thor specialty. The table at the right shows the wide range of capacities, speeds, lengths, and weights of Thor Screw Drivers and Nut Setters.

LOOK AT THE RANGE!

Capacities.....	Up to #16 W.S.; up to 1/2" Nut
Speeds.....	400 to 1500 R.P.M.
Weights.....	3 3/4 to 23 lbs.
Lengths.....	10 3/4" to 17 1/2"

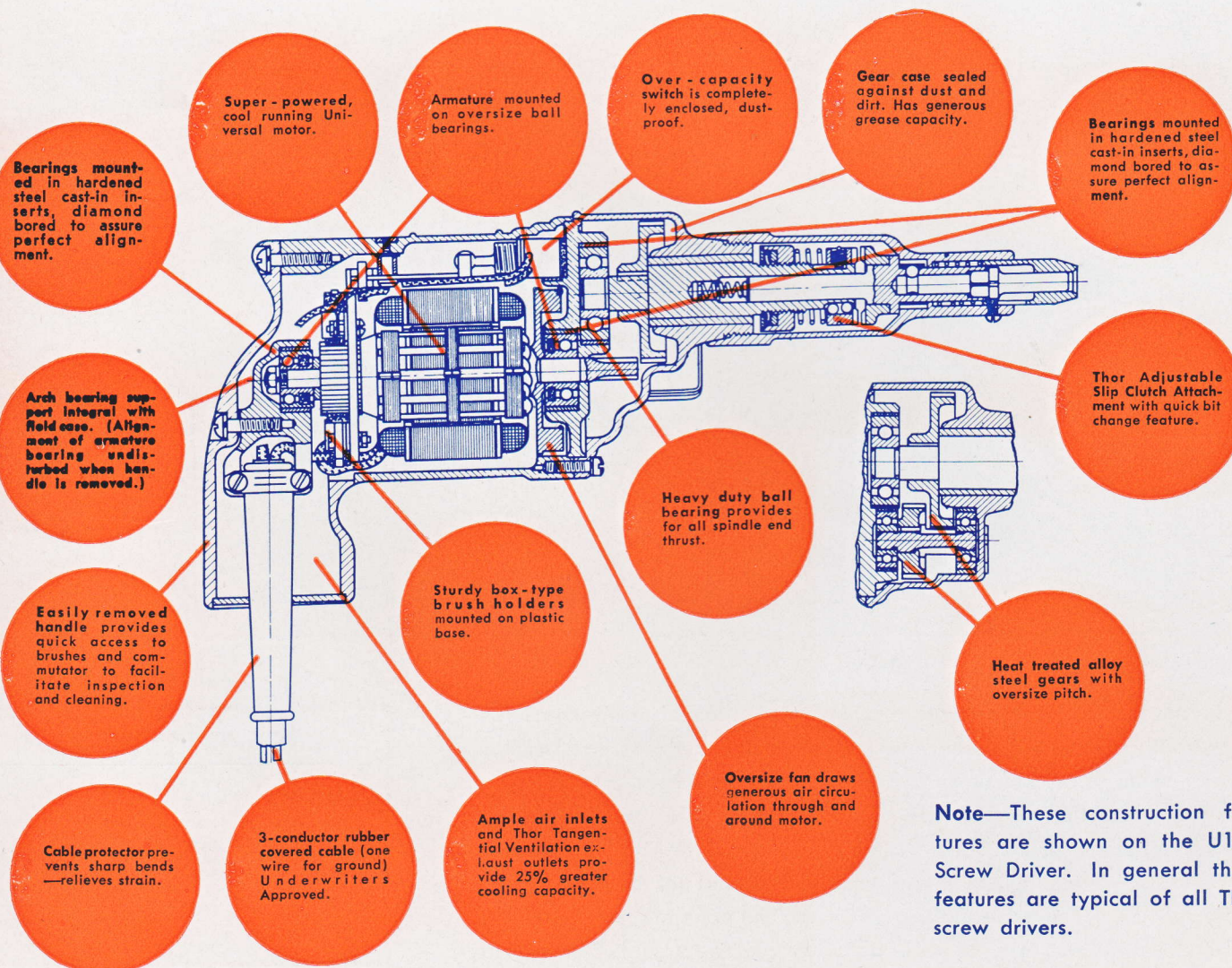
Thor

PORTABLE ELECTRIC SCREW REDUCE ASSEMBLY COSTS . . . SPEED UNITS

Since Thor engineers, years ago, built the first portable electric screw driver, the development of improved methods for driving screws and setting nuts quickly and economically has been a major Thor engineering specialty. Today, as a result, Thor supplies to industry more screw drivers and screw driving attachments than do all other electric tool manufacturers combined.

Catalogued here are the standard types of drivers built to handle routine production operations. Also listed are many attachments for use with standard tools designed for particular applications which expand widely the usage of these Thor machines. In addition, there are in the

complete Thor line hundreds of other special Angle and Extension Head Attachments available which have been designed for unusual operations or difficult situations peculiar to individual plants. Whatever your problem in driving screws or nuts and regardless of the conditions surrounding the operation, we ask you to let us put our engineers at your service. They will adapt existing Thor tools or will design new ones to meet best your special requirements. So versatile is the Thor line and Thor service in this respect that there has seldom been a screw or nut driving production problem presented to them for which Thor engineers have not supplied the answer.



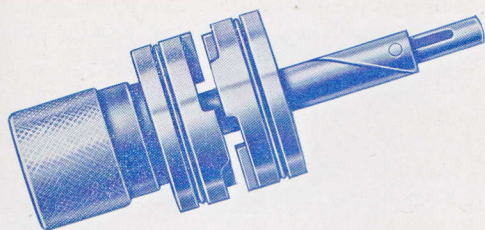
Note—These construction features are shown on the U16A Screw Driver. In general these features are typical of all Thor screw drivers.

DRIVERS AND NUT SETTERS

OPERATIONS . . . INCREASE FABRICATION RANGE

A WIDE RANGE OF MACHINES FOR EVERY SCREW OR NUT DRIVING JOB

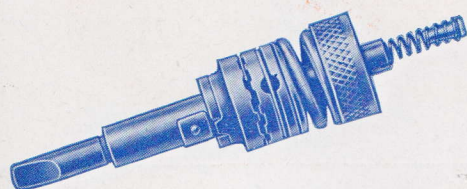
Thor screw drivers and nut setters are available in all speeds and types of machines. They can be furnished with grip handle, side switch, bonnet cap or suspension cap; machines can be mounted in hand or foot operated bench stands or suspended from balancers for production line operations. The wide variety of attachments are equipped with different types of clutches that are particularly suited to various applications.



Positive Clutch

POSITIVE CLUTCH ATTACHMENT

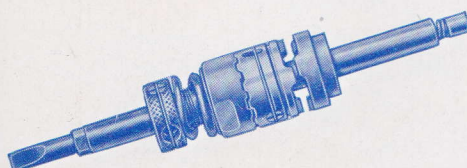
A positive clutch attachment is equipped with two clutch jaws that are manually engaged by pressure applied by the operator. When pressure is released the clutch disengages, stopping the rotary motion of the bit. At the instant of tightening screw or nut the operator and the tool absorb the impact. Positive clutch attachments have a limited range of work because the jaw faces have a set angle. The jaws are disengaged when pressure is released. Thus the tightening of screw or nut depends entirely upon the judgment of the operator.



Single Slip Clutch

SLIP CLUTCH ATTACHMENT

Slip clutch attachments are of two types: (1) The *single slip clutch* is equipped with two jaws that are manually engaged, one of which is backed by an adjustable tension spring. (2) The *double slip clutch* has two separate clutches; one a positive, manually-engaged type which in turn drives an adjustable, spring tension slip clutch.

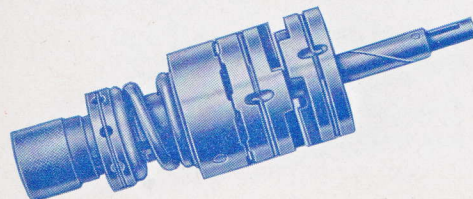


Double Slip Clutch

These attachments with adjustable feature can be set to drive any size screw in the capacity range of the attachment to a predetermined, uniform tightness. Once set, they eliminate all guess-work and guarantee tension of every nut or screw driven with 100% uniformity . . . automatically "slipping" when the desired tension is reached. In addition, these types of clutches cushion the impact, relieving the operator of fatiguing jolts and reducing spoilage by eliminating breakage of studs and stripping of threads. They also add considerably to the life of the machine and clutch jaws by absorbing stress and shock loads.

KICK-OUT CLUTCH ATTACHMENT

This attachment is similar in action to the double slip clutch. It operates on virtually the same principle, except that the clutch does not "slip" when the desired tension is reached, but automatically "kicks out," and a set of cams holds the spring tension clutch open for a full revolution of disengagement. This type is used on larger capacity machines and, like the slip clutch, it drives each screw or nut to exactly the same predetermined tension, is adjustable for driving to different tensions, and absorbs the shocks. The cam prolongs the life of the clutch jaws and lowers maintenance cost of the machine.



Kick-Out Clutch

Thor

SCREW DRIVERS NUT SETTERS

For up to: No. 8 Wood Screw; 3/16" Machine Screw or Nut—UL Series

These tools, designed particularly for driving the smaller sizes of screws, are exceptionally light in weight and easy to handle. Small size is combined with sturdily reinforced cast aluminum housings and precision manufacture to make them suitable for constant production service. The UL series drivers are equipped, as standard, with the Thor Double Slip Clutch attachment, which can be adjusted to drive all types of screws and nuts uniformly to any predetermined tension.

Construction throughout assures dependable performance and long life. Armature rotates on high grade, oversize ball bearings. Reducing gears are of nickel-chromium alloy steel, heat treated for extreme toughness and maximum service. Reducing gear shafts and spindle are mounted in long bronze bushings, each separately renewable. Thor tangential ventilation provides maximum cooling and insures efficient motor operation. Thumb-operated, off-and-on switch in plain machines. "W" type, lever-switch machines have momentary switch, opening automatically when lever is released.

EQUIPMENT

STANDARD (for all tools)—3-conductor cable with ground wire and plug. Three screw driver bits with one finder or one standard

length socket wrench shank with socket wrench, as specified. Double Slip Clutch Attachment No. 179.

ULN, ULP and ULT are furnished with bonnet cap with on-and-off side switch as standard.

ULNW, ULPW and ULTW are furnished with bonnet cap with lever switch, long or short lever, as specified.

OPTIONAL—A vertical suspension cap, with either lever or side switch, ideal for operation in suspended position, can be furnished for all these tools in place of standard bonnet cap, if specified.

Pistol grip handle can be furnished in place of bonnet cap, if specified.

SUPPLEMENTARY EQUIPMENT: Other screw driving and nut setting attachments, in both Slip Clutch and Positive Clutch types, can be furnished for these tools. See table below.

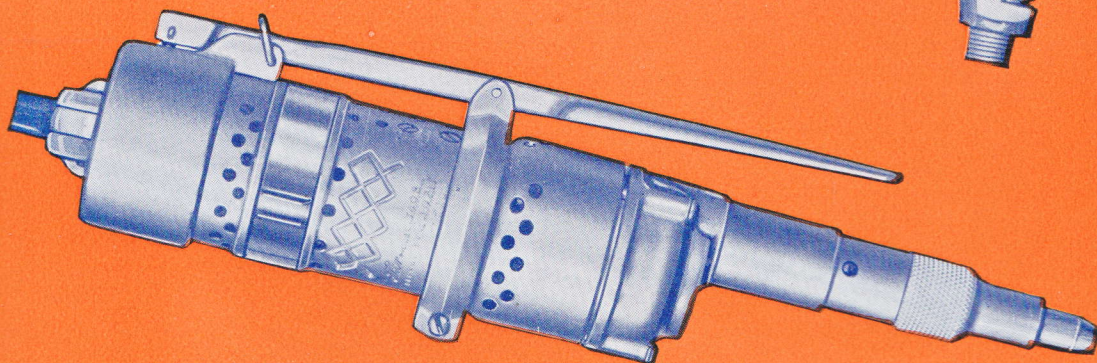
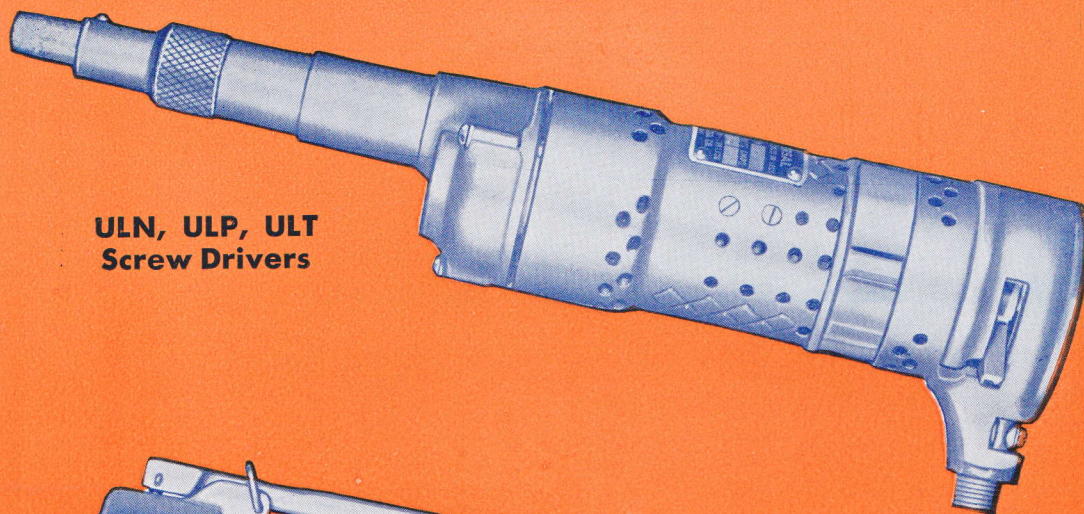
All these screw drivers can be equipped with Thor "Plx-Up" Finder; see page 46.

ATTACHMENTS AVAILABLE FOR UL SERIES SCREW DRIVERS AND NUT SETTERS

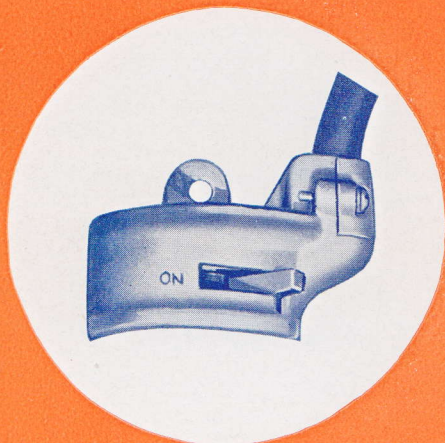
Slip Clutch Attachments					
Attach. Number	Description	ULN ULT	ULNW ULTW	ULP	ULPW
179 (Std.)	Straight	\$52.00	\$57.00	\$54.00	\$59.00
187	Straight	52.00	57.00	54.00	59.00
214A	Straight	52.00	57.00	54.00	59.00
363	Straight	57.00	62.00	59.00	64.00
364	Straight	57.00	62.00	59.00	64.00
148A	15° Angle	60.00	65.00	62.00	67.00
393	25° Angle	60.00	65.00	62.00	67.00
167A	Right Angle	72.00	77.00	74.00	79.00
277	Right Angle	84.00	89.00	86.00	91.00
365	Right Angle	84.00	89.00	86.00	91.00
366	Right Angle	84.00	89.00	86.00	91.00
Positive Clutch Attachments					
183	Straight	\$47.00	\$52.00	\$49.00	\$54.00
184	Straight	47.00	52.00	49.00	54.00
243	Straight	47.00	52.00	49.00	54.00
385	15° Angle	57.00	62.00	59.00	64.00
215	25° Angle	57.00	62.00	59.00	64.00
296	Right Angle	77.00	82.00	79.00	84.00

For detailed illustrations and specifications of these attachments see Thor Reference Manual No. 90 on screw driving and nut setting attachments, screw driver bits, sockets and socket wrenches.

**ULN, ULP, ULT
Screw Drivers**



**ULNW, ULPW, ULTW
Screw Drivers**



**Vertical
Suspension Cap**

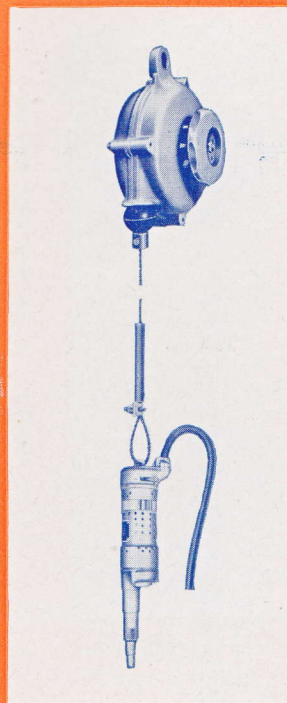
Optional equipment; furnished with either lever switch or side switch in place of bonnet cap, if specified.

THOR SAFETY BALANCERS FOR TOOL SUSPENSION

Thor Safety Balancers offer the safest and most convenient method of suspending screw drivers and other tools over the work within easy reach for frequent or rapid use, particularly on assembly line operations. A slight pull brings the tool down . . . upon release it rises out of the way. Thor Balancers are available in a wide range of sizes to handle loads up to 200 pounds. For full details, request Thor Catalog No. 52-B.

In ordering screw drivers, state size screw to be driven and whether round or flat head; or send sample screws.

In ordering nut setters, state whether hex. or square and give dimensions across flats of nuts.



SPECIFICATIONS

UL Series SCREW DRIVERS

Size Number ULN
Capacity Up to: No. 8 W.S.,
3/16" M.S. or nut
Free Speed 1500 RPM
Length 12 3/4"
Weight 3 3/4 lbs.
Shipping Weight 7 lbs.
Code Word ELULN
PRICE \$52.00

Size Number ULT
Capacity Up to: No. 8 W.S.,
3/16" M.S. or nut
Free Speed 1000 RPM
Length 12 3/4"
Weight 3 3/4 lbs.
Shipping Weight 7 lbs.
Code Word ELULT
PRICE \$52.00

Size Number ULP
Capacity Up to: No. 8 W.S.,
3/16" M.S. or nut
Free Speed 550 RPM
Length 12 3/4"
Weight 3 3/4 lbs.
Shipping Weight 7 lbs.
Code Word ELULP
PRICE \$54.00

Size Number ULNW
Capacity Up to: No. 8 W.S.,
3/16" M.S. or nut
Free Speed 1500 RPM
Length 13 3/4"
Weight 4 1/8 lbs.
Shipping Weight 7 lbs.
Code Word ELUNW
PRICE \$57.00

Size Number ULTW
Capacity Up to: No. 8 W.S.,
3/16" M.S. or nut
Free Speed 1000 RPM
Length 13 3/4"
Weight 4 1/4 lbs.
Shipping Weight 7 lbs.
Code Word ELUTW
PRICE \$57.00

Size Number ULPW
Capacity Up to: No. 8 W.S.,
3/16" M.S. or nut
Free Speed 550 RPM
Length 13 3/4"
Weight 4 1/4 lbs.
Shipping Weight 7 lbs.
Code Word ELUPW
PRICE \$59.00

When ordering, specify voltage

Thor

SCREW DRIVERS NUT SETTERS

For up to: No. 12 Wood Screw; 1/4" Mach. Screw and Nuts—U16 Series

These compact machines drive all sizes of wood screws from No. 4 to No. 12, and machine screws and nuts up to 1/4", providing a greater driving range than any other drivers obtainable. Shorter and lighter, with all weight concentrated right at the operator's hand, they are truly one-hand tools. The U16A series machines are available in three different speeds; in two switch styles; and in straight, 15°, 25°, and right angle models.

Compactness of design features this series of screw drivers. Strong die-cast aluminum alloy casings are very sturdily reinforced at all bearing hubs and stress points. Armature and reduction gear full ball bearing equipped. Heavy diameter spindle, supported at upper end by ball bearing, revolves in long bronze bushing. Thor tangential ventilation assures proper cooling and high motor efficiency. Helical cut gears of nickel-chromium, alloy steel are heat treated for extreme toughness and long service. Adjustable slip clutch attachment which drives any size screw in the capacity range to uniform tightness is standard. The free spindle idles until operating pressure engages the jaws. Can also be furnished with positive clutch attachments.

RIGHT ANGLE MACHINES. The following right angle models are available at speeds of 550 RPM—U19A, U19AP; and 600 RPM—U19CP.

Machines for Production Work — "CP" Series

Similar in general construction to the "A" series drivers, but with added power for production work, are the "CP" machines. They are available in three different speeds; in one switch style and in straight, 15°, 25° and right angle models.

SWITCH STYLES

THUMB THROW SWITCH. Off-and-on type, conveniently located on left side of case. Models with this switch are: U16A, U18A, U19A.

TRIGGER SWITCH. For intermittent or continuous operation. Trigger acts as momentary switch; can be locked for continuous operation by latch button. Models with this switch are designated: U16AP, U18AP, U19AP, U16CP, U18CP, U19CP.

REVERSING SWITCH can be added to the U16CP straight screw driving machine so that it will both drive and remove screws. To order, add letter "S" to size No. (as U16CPS).

EQUIPMENT

STANDARD—(for U16A Series and U16CPS)—3-conductor cable with ground wire and plug. Slip Clutch Attachment No. 257. Two Bits and one Finder each for Nos. 4, 6, 8, 10 and 12 screws. Switch style as specified.

STANDARD—(for U16CP)—3-conductor cable with ground wire and plug. Slip Clutch Attachment No. 180. 3 screw driver bits and one finder as specified. Trigger switch.

OPTIONAL—(for all tools)—Standard length socket wrench shank and socket wrench will be furnished in place of screw driver bits and finder, if specified.

SUPPLEMENTARY EQUIPMENT—Other screw driving and nut setting attachments, in both Slip Clutch and Positive Clutch types, can be furnished for these tools. See tables below.

All these screw drivers can be equipped with Thor "Pix-Up" Finder; see page 46.

ATTACHMENTS AVAILABLE FOR U16 SERIES SCREW DRIVERS AND NUT SETTERS

SLIP CLUTCH ATTACHMENTS

(Attachments marked (*) are standard for tool indicated)

Attach. Number	Description	U16A, U16AP U18A, U18AP	U16CP U18CP	U16CPS
257 (Std.)	Straight	\$57.00*	\$59.50	\$64.50*
H257	Straight (depth gauge)	Prices on application		
254	Straight	57.00	59.50	....
259	15° Angle	70.00	72.50	....
260	25° Angle	70.00	72.50	....
394	15° Angle	....	....	74.50
395	25° Angle	....	....	74.50
180 (Std.)	Straight	57.00	59.50*	....
185	Straight	62.00	64.50	....
186	Straight	62.00	64.50	....
224	Straight	67.00	69.50	....
360	Straight	67.00	69.50	....
362	Straight	67.00	69.50	....
388	15° Angle	70.00	72.50	....
389	25° Angle	70.00	72.50	....

POSITIVE CLUTCH ATTACHMENTS

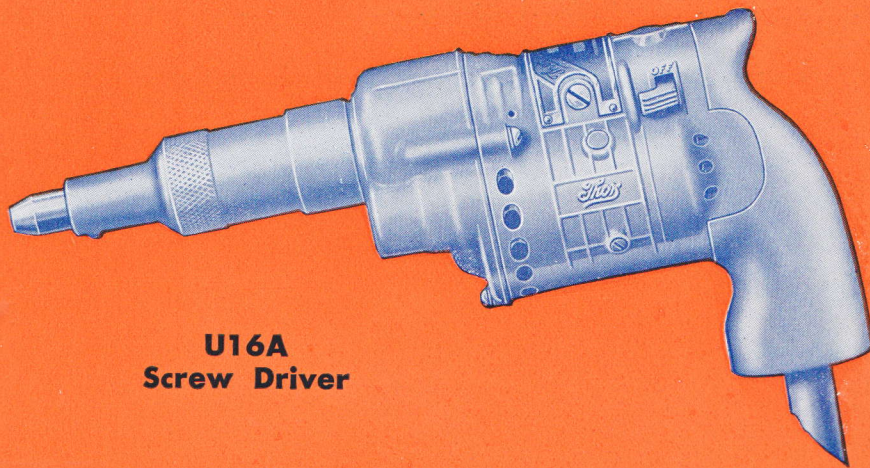
Attach. Number	Description	U16A, U16AP U18A, U18AP	U16CP U18CP	U16CPS
348	Straight	\$57.00	\$59.50	\$64.50
386	15° Angle	67.00	69.50	....
387	25° Angle	67.00	69.50	....
0	Straight	57.00	59.50	....
A0	Straight	59.50	62.00	....
22	Straight	57.00	59.50	....
32	Straight	57.00	59.50	....
42	Straight	57.00	59.50	....
31	Straight	62.00	64.50	....
100	Straight	57.00	59.50	....
102	Universal	57.00	59.50	....
182	Straight	57.00	59.50	64.50
321	Straight	57.00	59.50	....
151	15° Angle	67.00	69.50	....
152	25° Angle	67.00	69.50	....

AUXILIARY ATTACHMENTS

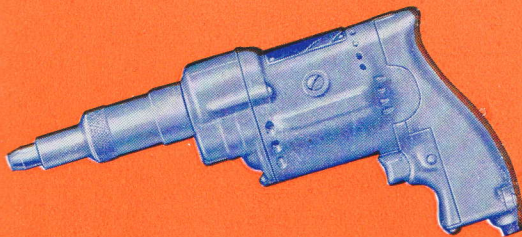
Aux. Attach. Number	Use with Attach. No.	Price of Aux. Attach. only
8	0	\$5.00
9	0	5.00
10	0	5.00
18	0	5.00
19	0	5.00
20	0	5.00
156	31	2.50
NA-160	31	6.75*
NA-161	31	7.00*
NA-162	321	6.75*
NA-163	321	7.00*
181	0	5.00

*Prices shown for 4 1/4" shank; add 50c for 6" shank.

For detailed illustrations and specifications of these attachments see Thor Reference Manual No. 90 on screw driving and nut setting attachments, screw driver bits, sockets and socket wrenches.

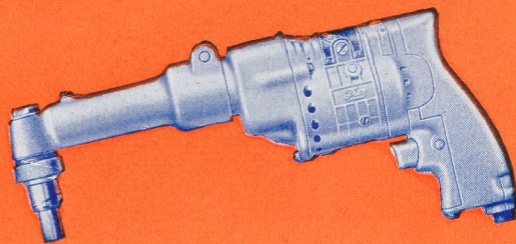


**U16A
Screw Driver**



**U16CP
Screw Driver**

**U19AP
Right Angle
Screw Driver**



RIGHT ANGLE ATTACHMENTS

Attach. Number	Description	U19A U19AP	U19CP
287 (Std).	Slip Clutch	\$ 94.00	\$ 96.50
169D	Kick-Out Clutch	87.00	89.50
169R	Kick-Out Clutch		96.50*
207	Slip Clutch	84.50	87.00
207A	Slip Clutch	84.50	87.00
248	Kick-Out Clutch	92.00	94.50
249	Kick-Out Clutch	87.00	89.50
253	Kick-Out Clutch	90.00	92.50
271	Slip Clutch	92.00	94.50
275	Kick-Out Clutch	97.00	99.50
311	Slip Clutch	84.50	87.00
312	Slip Clutch	94.00	96.50
313	Slip Clutch	94.00	96.50
319	Slip Clutch	92.00	94.50
319B	Kick-Out Clutch	92.00	94.50
329	Kick-Out Clutch	112.00	114.50
333	Kick-Out Clutch	97.00	99.50
337	Slip Clutch	94.50	97.00
357	Kick-Out Clutch	On application	On application
355	Kick-Out Clutch	On application	On application
370	Slip Clutch	96.00	98.50
378	Slip Clutch	On application	On application
297	Positive Clutch	94.00	96.50

*Furnished with Reversing Switch at \$5.00 additional. Specify Size U19CPS.

In ordering nut setters, state whether hex. or square and give dimensions across flats of nuts.

In ordering screw drivers, state size screw to be driven and whether flat or round head; or send sample screws.

SPECIFICATIONS

U16A Series SCREW DRIVERS AND NUT SETTERS

Heavy Duty

Size Number U16CP
Capacity Up to #12 W.S.
1/4" M.S. or Nut
Free Speed 780 RPM
Length 12 3/8"
Weight 4 1/8 lbs.
Shipping Weight 7 lbs.
Code Word ENGAP
PRICE \$59.50

Size Number U18CP
Capacity Up to #12 W.S.
1/4" M.S. or Nut
Free Speed 780 RPM
Length 12 3/8"
Weight 4 1/8 lbs.
Shipping Weight 7 lbs.
Code Word ENGAR
PRICE \$59.50

Size Number U19CP
Capacity Up to #12 W.S.
1/4" M.S. or Nut
Free Speed 600 RPM
Length 13 1/4"
Weight 6 lbs.
Shipping Weight 9 lbs.
Code Word ENGAS
PRICE \$96.50

Standard Duty

Size Number U16A	U16AP
Capacity Up to #12 W.S. 1/4" M.S. or Nut	Up to #12 W.S. 1/4" M.S. or Nut
Free Speed 750 RPM	750 RPM
Length 10 3/4"	11 1/4"
Weight 4 lbs.	4 1/4 lbs.
Shipping Weight 6 lbs.	7 lbs.
Code Word ENUPU	ENRUX
PRICE \$57.00	\$57.00

Size Number U18A	U18AP
Capacity Up to #12 W.S. 1/4" M.S. or Nut	Up to #12 W.S. 1/4" M.S. or Nut
Free Speed 900 RPM	900 RPM
Length 10 3/4"	11 1/4"
Weight 4 lbs.	4 1/4 lbs.
Shipping Weight 6 lbs.	7 lbs.
Code Word ENRUP	ENRUY
PRICE \$57.00	\$57.00

Size Number U19A	U19AP
Capacity Up to #12 W.S. 1/4" M.S. or Nut	Up to #12 W.S. 1/4" M.S. or Nut
Free Speed 550 RPM	550 RPM
Length 12 1/4"	12 3/4"
Weight 5 1/4 lbs.	5 1/2 lbs.
Shipping Weight 8 lbs.	8 lbs.
Code Word ENRUS	ENRUZ
PRICE \$94.00	\$94.00

When ordering, specify voltage

Thor

SCREW DRIVERS NUT SETTERS

For up to: $\frac{1}{4}$ " Mach. Screw and Nuts; No. 12 Wood Screws — UK Series

The UK Series screw drivers and nut setters are powerful production service tools, yet light in weight, small in size and easy to handle. They are equipped with either Double Slip Clutch or Positive Clutch straight, 15°, 25° and right angle attachments and are available in various speeds to make them adaptable to different nut or screw driving applications.

Built for production service, these machines are provided with a powerful motor and aluminum housings which are strongly reinforced in all connecting flanges and bearing hubs for maintaining perfect bearing alignment and gear meshing. Armature revolves on two high-grade oversize bearings. Reducing gears are of nickel-chromium alloy steel with strong tooth design, heat treated for toughness and long wearing qualities. Reducing gear shafts and spindle revolve in long bronze bushings, each separately replaceable. Thor tangential ventilation provides maximum cooling and insures efficient motor operation.

DOUBLE SLIP CLUTCH TYPE — UKP AND UKGK

The UKP screw driver, with a free speed of 400 RPM, is designed especially for driving machine and self-tapping screws and nuts on production assembly jobs in cabinet and furniture building, boat building, radio, automobile and aviation assembly and general production service.

The UKGK has a higher speed and is particularly adaptable for driving machine screws and nuts in similar applications.

POSITIVE CLUTCH TYPE — UKH AND UKG

These machines, of the same general construction and specifications as those described above, are designed for similar assembly operations. The UKG is particularly suitable for machine screws and nuts; the UKH, with its slower speed and greater torque, for wood screws.

EQUIPMENT

STANDARD (for UKP and UKGK)—3-conductor cable with ground wire and plug. No. 180 Double Slip Clutch Attachment with 3 screw driver bits and one finder, as specified. Closed Grip Handle with thumb operated plunger switch.

STANDARD (for UKH and UKG)—3-conductor cable with ground wire and plug. No. 0 Positive Clutch Attachment with 3 screw driver bits, as specified. Closed Grip Handle with thumb operated plunger switch.

OPTIONAL (for all tools)—Bonnet Cap, for close-quarter operations. One standard length socket wrench shank with socket wrench in place of bits and finder.

SUPPLEMENTARY EQUIPMENT—Other screw and nut setting attachments, in both Slip Clutch and Positive Clutch types, can be furnished for these tools. See tables below.

All these screw drivers can be equipped with Thor "Pix-Up" Finder; see page 46.

ATTACHMENTS AVAILABLE FOR UK SERIES SCREW DRIVERS AND NUT SETTERS

SLIP CLUTCH ATTACHMENTS

Attach. Number	Description	UKP UKGK
180 (Std.)	Straight	\$ 68.00
185	Straight	63.00
186	Straight	63.00
224	Straight	68.00
360	Straight	68.00
362	Straight	68.00
388	15° Angle	71.00
389	25° Angle	71.00

RIGHT ANGLE ATTACHMENTS

169D	Kick-Out Clutch	\$ 88.00
169R	Kick-Out Clutch	95.00
207	Slip Clutch	85.50
207A	Slip Clutch	85.50
248	Kick-Out Clutch	93.00
249	Kick-Out Clutch	88.00
253	Kick-Out Clutch	91.00
271	Slip Clutch	93.00
275	Kick-Out Clutch	98.00
287	Slip Clutch	97.00
311	Slip Clutch	85.50
312	Slip Clutch	95.00
313	Slip Clutch	95.00
319	Slip Clutch	93.00
319B	Kick-Out Clutch	93.00
329	Kick-Out Clutch	113.00
333	Kick-Out Clutch	98.00
337	Slip Clutch	95.50
355	Kick-Out Clutch	On application
357	Kick-Out Clutch	On application
370	Slip Clutch	97.00
378	Slip Clutch	On application

POSITIVE CLUTCH ATTACHMENTS

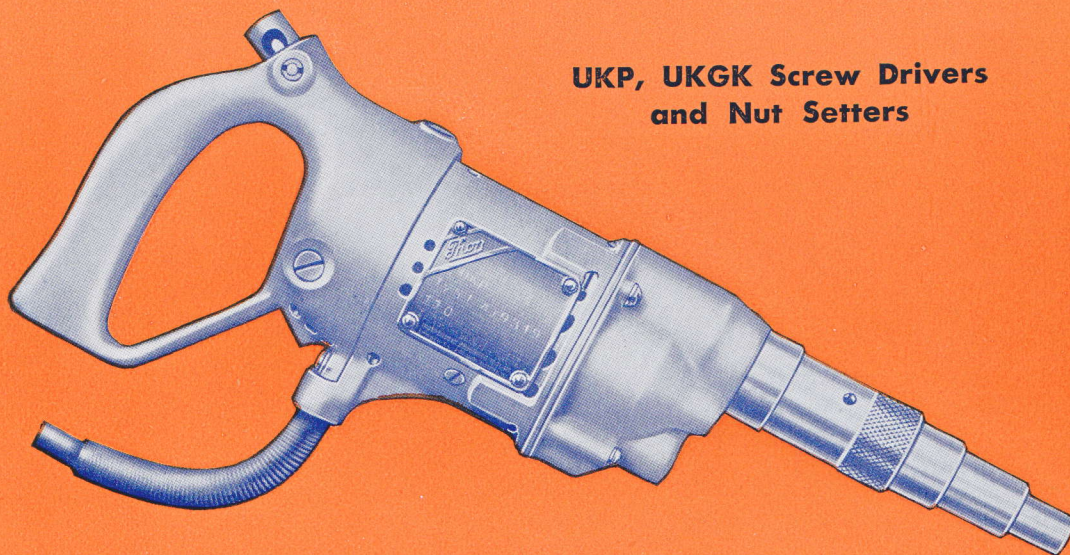
Attach. Number	Description	UKH UKG
0 (Std.)	Straight	\$58.00
A0	Straight	60.50
22	Straight	58.00
32	Straight	58.00
42	Straight	58.00
31	Straight	63.00
100	Straight	55.00
102	Universal	58.00
182	Straight	58.00
321	Straight	58.00
151	15° Angle	68.00
152	25° Angle	68.00
297	Right Angle	95.00

AUXILIARY ATTACHMENTS

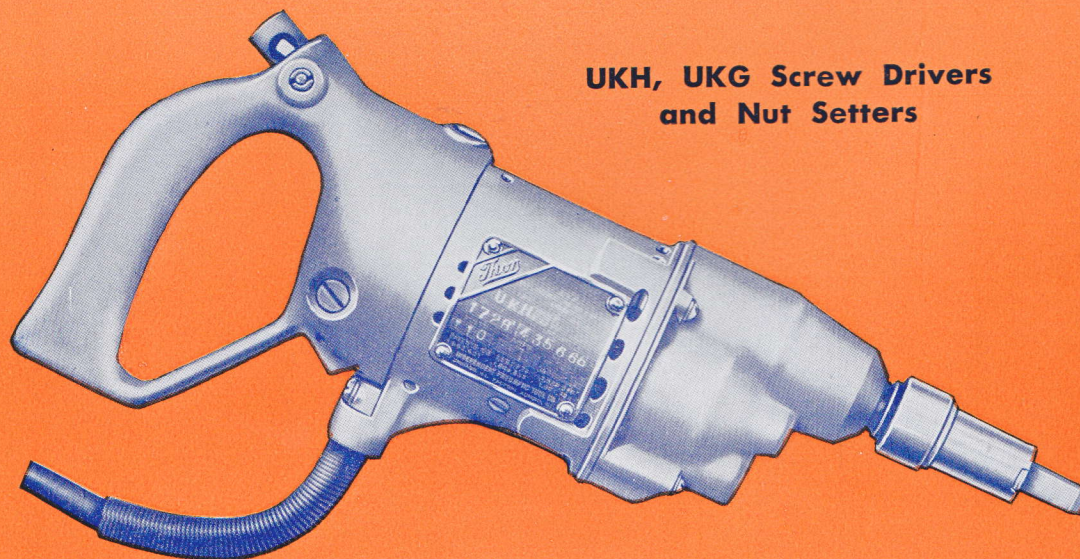
Aux. Attach. Number	Use With Attach. No.	Price of Aux. Attach. Only
8	0	\$5.00
9	0	5.00
10	0	5.00
18	0	5.00
19	0	5.00
20	0	5.00
156	31	2.50
NA-160	31	6.75*
NA-161	31	7.00*
NA-162	321	6.75*
NA-163	321	7.00*
181	0	5.00

*Prices shown for $\frac{1}{4}$ " shank; add 50c for $\frac{3}{8}$ " shank.

For detailed illustrations and specifications of these attachments see Thor Reference Manual No. 90 on screw driving and nut setting attachments, screw driver bits, sockets and socket wrenches.



**UKP, UKGK Screw Drivers
and Nut Setters**



**UKH, UKG Screw Drivers
and Nut Setters**

In ordering screw drivers state size screw to be driven and whether flat or round head; or send sample screws.

In ordering nut setters, state whether hex., or square; give dimensions across flats of nuts.

SPECIFICATIONS

UK Series

SCREW DRIVERS AND NUT SETTERS

Size Number UKP
Capacity Up to 1/4" M.S.
and Nuts
Up to #12 W.S.
Free Speed 400 RPM
Length 15 1/8"
Weight 6 1/2 lbs.
Shipping Weight 10 lbs.
Code Word KAYPO
PRICE \$68.00

Size Number UKGK
Capacity Up to 1/4" M.S.
and Nuts
Up to #12 W.S.
Free Speed 750 RPM
Length 15 1/8"
Weight 6 1/2 lbs.
Shipping Weight 10 lbs.
Code Word KAYGK
PRICE \$68.00

Size Number UKH
Capacity Up to 1/4" M.S.
and Nuts
Up to #12 W.S.
Free Speed 400 RPM
Length 12 7/8"
Weight 5 3/4 lbs.
Shipping Weight 10 lbs.
Code Word KAYHE
PRICE \$58.00

Size Number UKG
Capacity Up to 1/4" M.S.
and Nuts
Up to #12 W.S.
Free Speed 750 RPM
Length 12 7/8"
Weight 5 3/4 lbs.
Shipping Weight 10 lbs.
Code Word KAYEG
PRICE \$58.00

When ordering, specify voltage

Thor

SCREW DRIVERS NUT SETTERS

The tool is built with heavy section aluminum housings with all bearing hubs strongly reinforced. Armature revolves on two oversize ball bearings; heavy roller bearings are used on reducing gears. Spindle rotates in a long bronze sleeve bearing and is further supported at upper end by ball thrust bearing and roller radial bearing. Gears are of nickel-chromium, alloy steel with strong tooth design, heat treated for toughness.

For up to: No. 16 Wood Screws; 5/16" Mach. Screws and Nuts—UBG

Intended for heavy duty, continuous service, the UBG machine will do fast and accurate screw driving and nut setting with perfect satisfaction on construction work, ship and railway car building and repair, automobile and body work.

EQUIPMENT

STANDARD—3-conductor cable with ground wire and plug. Three screw driver bits, as specified. Closed grip handle with momentary trigger switch. No. 131 Positive Clutch Attachment.

OPTIONAL—One standard length socket wrench shank with socket wrench in place of bits.

SUPPLEMENTARY EQUIPMENT—See tables below.

This screw driver can be equipped with Thor "Pix-Up" Finder; see page 46.

For up to: No. 16 Wood Screws, 5/16" Mach. Screws and Nuts —
3/8" Heavy Duty Drilling — UBG-D

This combination tool fills a very definite need existing in shops where both screw and nut driving and drilling are done, but where the limited amount of either operation does not warrant the purchase of two separate tools. By means of a specially designed Jacobs chuck and Adaptor, the UBG-D can be quickly converted from a heavy duty screw driver or nut setter into a drill.

EQUIPMENT

STANDARD—No. 372 3/8" Capacity Jacobs Chuck and Adaptor. No. 131 Positive Clutch, Nut or Screw Driving Attachment. Grip handle with momentary trigger switch. 3-conductor cable with ground wire and plug. 3 bits or one socket wrench shank with socket, in size as specified.

SUPPLEMENTARY EQUIPMENT—See tables below.

Thor

COMBINATION SCREW DRIVER AND DRILL

ATTACHMENTS AVAILABLE FOR UB SERIES SCREW DRIVERS AND NUT SETTERS

Positive Attachments

Attach. Number	Description	UBG	UBG-D
131 (Std.)	Straight	\$ 72.00	\$82.00
3	Straight	72.00	82.00
A3	Straight	74.50	84.50
23-33-43-53	Straight	72.00	82.00
104	Universal	72.00	82.00
130	Straight	69.00	79.00
132	Straight	77.00	87.00
F135	Straight	72.00	....
246	Straight	70.00	80.00
390	Straight	....	82.00
234	Straight	74.00	....
235	15° Angle	87.00	....
392	25° Angle	87.00	....
297	Right Angle	109.00	....
158B	Right Angle	107.00	....
203	Right Angle	107.00	....
209	Right Angle	99.50	....
233	Right Angle	107.00	....

*Prices include No. 372 Chuck and Adapter for drilling.

Slip and Kick-Out Clutch Attachments

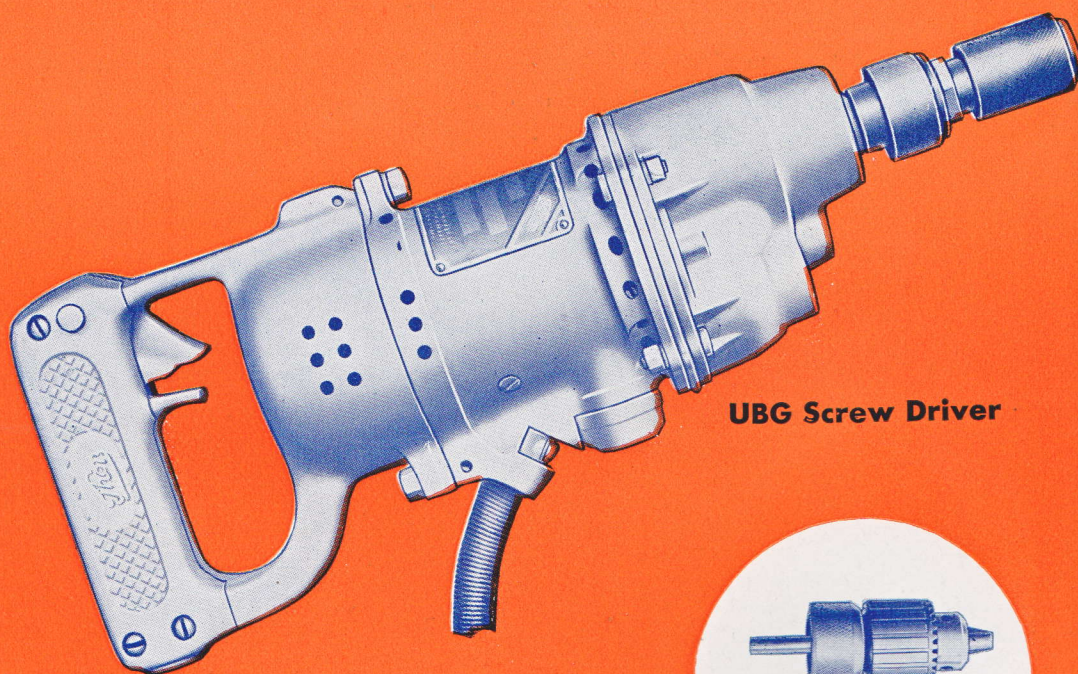
Attach. Number	Description	Type Clutch	UBG
169D	Right Angle	Kick-Out	\$102.00
169R	Right Angle	Kick-Out	109.00
248	Right Angle	Kick-Out	107.00
249	Right Angle	Kick-Out	102.00
253	Right Angle	Kick-Out	105.00
275	Right Angle	Kick-Out	112.00
312	Right Angle	Slip	109.00
313	Right Angle	Slip	109.00
319B	Right Angle	Slip	107.00
329	Right Angle	Kick-Out	127.00
333	Right Angle	Kick-Out	112.00
355	Right Angle	Kick-Out	147.00

Auxiliary Attachments

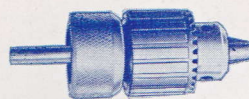
Aux. Attach. Number	Use With Attach. No.	Price of Aux. Attach. only
156	3 and 131	\$ 2.50
F156	F135 and 234	3.50
NA-160	3 and 131	6.75*
NA-161	3 and 131	7.00*
NA-162	F135 and 234	6.75*
NA-163	F135 and 234	7.00*
166	F135 and 234	10.00
338	F135 and 234	3.50
37855	F135 and 234	3.50

*Prices shown for 4 1/4" shank; add 50c for 6" shank.

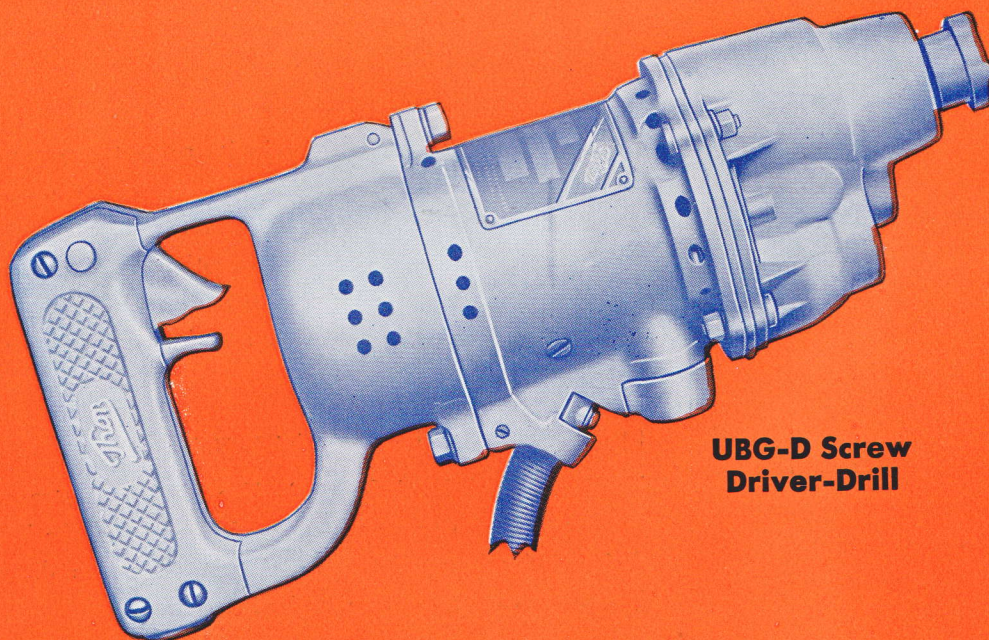
For detailed illustrations and specifications of these attachments see Thor Reference Manual No. 90 on screw driving and nut setting attachments, screw driver bits, sockets and socket wrenches.



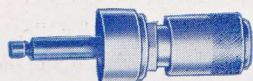
UBG Screw Driver



**UBG-D
Drilling
Attachment**



**UBG-D Screw
Driver-Drill**



**No. 131
Attachment**

SPECIFICATIONS

UBG SCREW DRIVER

Size Number UBG
Capacity.....Up to #16 W.S.
Up to $\frac{1}{8}$ " Mach.
Screw or Nut
Free Speed 750 RPM
Length 14-11/16"
Weight 8 $\frac{1}{8}$ lbs.
Shipping Weight 13 lbs.
Code Word ENDRI
PRICE\$72.00

In ordering screw drivers state size screw to be driven and whether flat or round head; or send sample.

In ordering nut setters, state whether hex. or square and give dimensions across flats of nuts.

UBG-D SCREW DRIVER-DRILL

Size Number UBG-D
Capacity.....Up to #16 W.S.
Up to $\frac{1}{8}$ " Mach.
Screw or Nut
Capacity $\frac{3}{8}$ " Drilling
Free Speed 750 RPM
Length—
S. D. 14 $\frac{1}{4}$ "
Drill 15 $\frac{1}{4}$ "
Weight
S. D. 8 $\frac{1}{4}$ lbs.
Drill 9 $\frac{1}{2}$ lbs.
Shipping Weight 14 lbs.
Code Word ENBUD
PRICE\$82.00

When ordering, specify voltage

Thor

PORTABLE ELECTRIC NUT SETTERS

1/4 IN. NUT SETTER—The UBGN is a small, compact machine of 1/4" capacity for continuous production work, its light weight providing handling ease for quick, certain operation.

EQUIPMENT

STANDARD—3-conductor cable with ground wire and plug. Closed grip handle with momentary trigger switch. No. 140 Kick-Out Clutch Attachment. One standard length socket wrench shank with one square or hex. socket wrench, in size as specified.

OPTIONAL—No. A-135 Positive Clutch Attachment.

EXTRA—Reversing Switch can be added to this tool so that it will run nuts both on and off for assembling and disassembling operations. Available at additional cost of \$5.00.

STANDARD AND HEAVY DUTY, 1/4 in. and 1/2 in. Capacities With Kick-Out Clutch Attachment—UBGN, UCH and UEH

Each of these machines is built for production duty in its respective capacity rating, and is powered and constructed accordingly. They are especially adapted to running up nuts, bolts and lag screws in assembling metal frames, partitions, shelving, scaffolding, conveyors and for all production, installation and maintenance work. All these tools have the Thor Kick-Out Clutch Attachment, which assures uniform nut tightening because the driving torque is pre-set and the clutch automatically disengages when each nut reaches the desired tension.

1/2 IN. NUT SETTERS—The UCH is a light weight machine for standard duty, 1/2-inch capacity, nut-setting on production and maintenance work. The UEH is for heavy duty work up to its 1/2-inch capacity. Sturdy and powerful, it can be used for continuous service on the most difficult operations.

EQUIPMENT

STANDARD—3-conductor cable with ground wire and plug. Side handle with off-and-on plunger switch. Suspension cap and hook for either horizontal or vertical suspension. Dead handle. No. 141 Kick-Out Attachment. One standard length socket shank with socket wrench in size specified.

OPTIONAL—Spade handle in place of suspension cap and hook.

Thor

PORTABLE ELECTRIC NUT SETTERS

All casings are of sturdy section, heavily reinforced at points of stress. Armature revolves on two oversize capacity ball bearings; heavy roller bearings are used for reducing gears. Spindle, of large diameter, rotates in a long, bronze sleeve bearing and is further supported at the upper end by both ball thrust and roller radial bearings. The reducing gears are made of nickel-chromium, alloy steel with strong tooth design, heat treated for toughness. Thor tangential ventilation insures proper cooling and efficient motor operation.

STANDARD DUTY NUT SETTER—The UCG is a sturdy, powerful machine for standard duty service on 1/2-inch nut setting; for heavy duty service on 3/8-inch nut setting. Because of its light weight it is particularly suitable for

STANDARD AND HEAVY DUTY, 3/8 in. and 1/2 in. Capacities With Positive Clutch Attachment—UCG and UEG

Each of these machines is built for production duty in its respective capacity rating, and is powered and constructed accordingly. They are especially adapted to production and maintenance work on erection, installation and construction jobs in marine, railway and steel fabricating plants, automotive and machinery factories, etc. These machines are provided with a positive clutch attachment which disengages when forward pressure is released, assuring uniform work and long service under constant use.

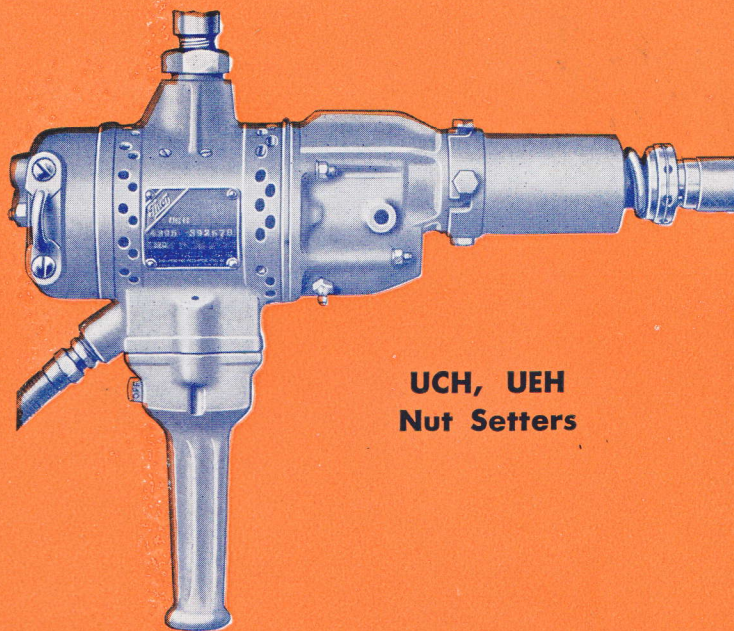
production as well as maintenance work.

HEAVY DUTY NUT SETTER—The UEG is a stronger, heavier tool with greater power and torque than the UCG, designed for heavy duty, 1/2-inch nut setting on difficult jobs where constant, severe service is required.

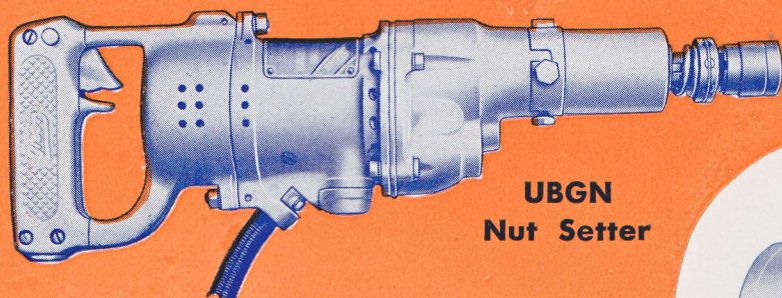
EQUIPMENT

STANDARD—3-conductor cable with ground wire and plug. Side handle with off-and-on plunger switch. Suspension cap and hook for either horizontal or vertical suspension. Dead handle. No. A136 Positive Clutch Attachment. One standard length socket wrench shank with one square or hexagon socket wrench, in size as specified.

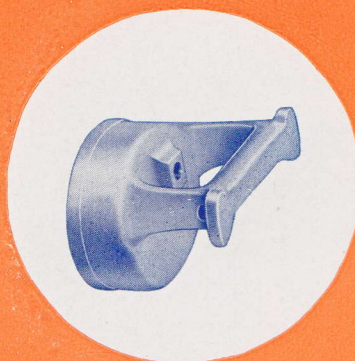
OPTIONAL—Spade handle in place of suspension cap and hook.



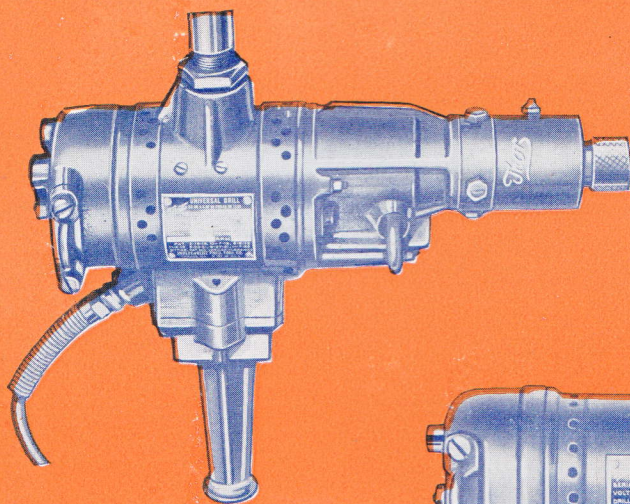
**UCH, UEH
Nut Setters**



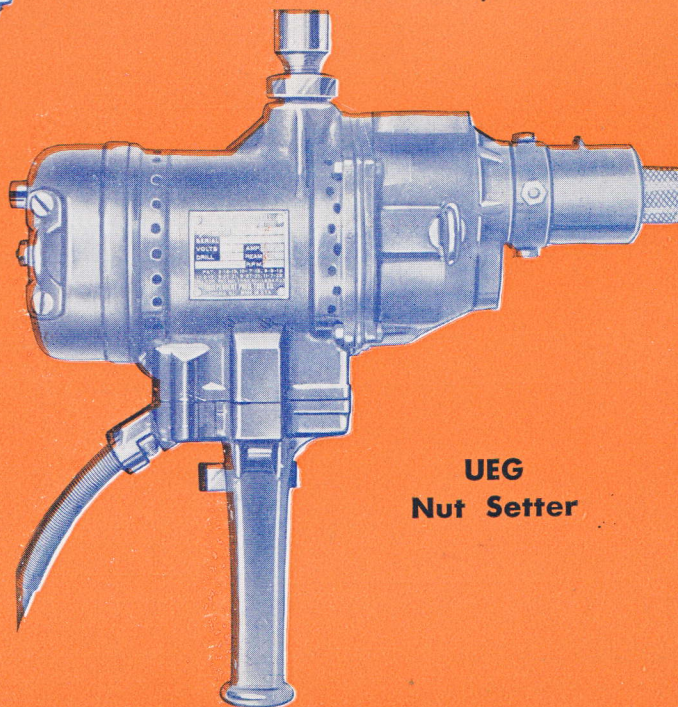
**UBGH
Nut Setter**



**Spade Handle
(Optional Equipment
for UCH, UEH, UCG
and UEG)**



**UCG
Nut Setter**



**UEG
Nut Setter**

SPECIFICATIONS

NUT SETTERS

Size Number UCH
Capacity $\frac{1}{2}$ " Nut
(Light Duty)
Free Speed 450 RPM
Length $16\frac{1}{4}$ "
Weight $17\frac{1}{4}$ lbs.
Shipping Weight 28 lbs.
Code Word ENWCH
PRICE \$110.00

Size Number UEH
Capacity $\frac{1}{2}$ " Nut
(Heavy Duty)
Free Speed 550 RPM
Length $17\frac{1}{2}$ "
Weight $23\frac{1}{4}$ lbs.
Shipping Weight 33 lbs.
Code Word ENEUH
PRICE \$135.00

Size Number UBGH
Capacity $\frac{1}{4}$ " Nut
Free Speed 750 RPM
Length $17\frac{1}{2}$ "
Weight $11\frac{3}{4}$ lbs.
Shipping Weight 15 lbs.
Code Word EUBGH
PRICE

(With No. 140 attach.) \$84.00
(With No. A135 attach.) \$77.00

In ordering nut setters, specify whether for hexagon or square nuts and give dimensions across flats of nuts.

When ordering, specify voltage

SPECIFICATIONS

NUT SETTERS

Size Number UCG
Capacity $\frac{1}{2}$ " Nut
(Light Duty)
Free Speed 450 RPM
Length $13\frac{3}{4}$ "
Weight $15\frac{1}{2}$ lbs.
Shipping Weight 28 lbs.
Code Word ENWCG
PRICE \$94.00

Size Number UEG
Capacity $\frac{1}{2}$ " Nut
(Heavy Duty)
Free Speed 550 RPM
Length 15"
Weight 23 lbs.
Shipping Weight 33 lbs.
Code Word ENEUG
PRICE \$120.00

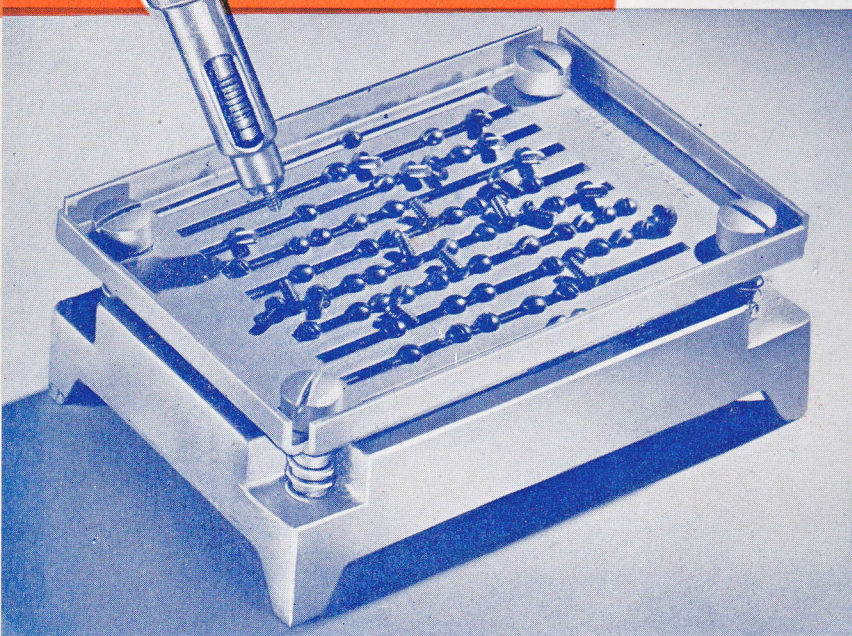
In ordering nut setters, specify whether for hexagon or square nuts and give dimensions across flats of nuts.

When ordering, specify voltage

Thor 'PIX-UP' FINDER

and ADJUSTO-TRAY

New Device Picks Up Screw ...Holds it for Driving



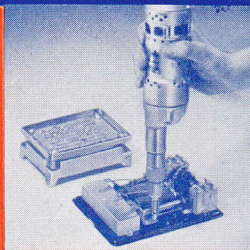
SORTS... PICKS UP... DRIVES...



1. Sorts. Screws are tossed on slotted Adjusto-Tray. They drop into slots with heads up, ready for instant pick up.



2. Picks Up. Screw driver is lowered to tray, which depresses to thrust screw head into "Pix-Up" Finder. Grip is secure, screw perfectly aligned.



3. Drives. Screw driver is brought to work and screw is driven. One, two, three—the job's done 3 to 9 times faster!

If it is desired to equip a Thor power screw driver with "Pix-Up" Finder, it will be necessary to order No. 57849 Bit Extension together with "Pix-Up" Finder according to the size of Thor Attachment in use, specifying part number of "Pix-Up" Finder depending on size of screw, as indicated below.

"PIX-UP" FINDERS

For Machines with No. 179 or 254 Attachments; or No. 277, 287 or 312 Right Angle Attachments:		For Machines with No. 222 Attachment:	
"Pix-Up" Finder No.	For Screw Size	"Pix-Up" Finder No.	For Screw Size
69414	No. 3 round head		
69418	No. 3 flat head		
69422	No. 4 round head		
69426	No. 4 flat head		
69430	No. 6 round head	69432	No. 6 round head
69435	No. 8 round head	69437	No. 8 round head
69440	No. 10 round head	69442	No. 10 round head
69445	No. 12 round head	69447	No. 12 round head
69450	No. 14 round head	69452	No. 14 round head

NOTE—For oval head screw, order Finder for same size flat head screw. For binding head screws, Finder must be made with special recess.

NOTE—When ordering, specify size of screw to be driven and whether round, flat, oval, or binding head and, if possible, furnish samples of the screw.

OPERATION. Screws are spilled on the slotted Adjusto-Tray, made for the size screw designated, and by briefly shaking the tray they are suspended in the slots with heads up. The "Pix-Up" Finder is then placed over the screw head, and, as the tray depresses slightly, the finder grips the screw head firmly and in perfect alignment, ready for the driving operation.

SIZE RANGE. The "Pix-Up" Finder is available for screws from No. 3 to No. 14. The Adjusto-Tray handles No. 2 to No. 14 screws. Larger screws can be inserted by hand into the Finder.

CONSTRUCTION FEATURES

THE "PIX-UP" FINDER has three slots lengthwise and is recessed inside the lower end to fit the particular size and type of screw. A sleeve allows the finder to spread only far enough for the entrance of the screw.

THE ADJUSTO-TRAY is a slotted screw tray, spring mounted on a base and adjustable by screws at each of the four corners for the particular length of screw to be driven. The cast iron base requires only 4" x 5½" area, and is heavy enough for proper stability.

MACHINE APPLICATION. The "Pix-Up" Finder in standard form is made to take the place of the standard stationary finder of Thor Screw Driving Attachments using the No. 45000 Screw Driving Bit with ¼" x 24 threaded shank. In other words, the "Pix-Up" Finders replace either No. 25054 Finders or No. 25149 Finders.

THOR PORTABLE ELECTRIC SCREW DRIVERS AVAILABLE WITH "PIX-UP" FINDERS

Size No.	With Attachment
ULN, ULNW, ULT, ULTW, ULP, ULPW	No. 179 No. 277 (right angle)
U16A, U16AP, U18A, U18AP	No. 254
U16CP, U18CP, UKP, UKGK	No. 180
U19A, U19AP, U19CP	No. 287 (right angle) No. 312 (right angle)
UKG, UKH	No. 287 (right angle)

PRICES

Any of the above screw drivers will be furnished complete with one "Pix-Up" Finder, No. 57849 Bit Extension and three Screw-driving Bits at the following prices:

For Screws Size	Additional cost with machine	"Pix-Up" Finder Alone
Up to and including #14 Round Head Screws	\$4.00	\$4.50
No. 57849 Bit Extension. Price, \$1.25		

ADJUSTO-TRAYS

Adjusto-Tray	For Screws	Price
No. 71103	Nos. 12 and 14 R.H.	\$6.00
No. 71102	No. 2	6.00
No. 69408	Nos. 3 and 4	5.00
No. 69409	Nos. 5 and 6	5.00
No. 69410	Nos. 8 and 10	5.00



Thor HAMMERS SAWS AND NIBBLERS

Drilling holes in concrete, stone or brick . . . sawing bracing timbers for freight cars . . . cutting sections of corrugated metal—here are typical jobs where Thor Hammers, Saws and Nibblers supplant slow, costly hand methods with the mechanical ease of tools especially designed for their job. On the amazing new “Sling-Shot Drive” principle Thor Engineers have built an electric hammer truly packed with power. On an entirely new application of the punch-and-die principle they have developed the Thor Nibbler, which cuts metal with surprising ease and speed. These better, faster Thor ways of doing the job have made more money, saved time and cut costs for users everywhere.

Thor

PORTABLE ELECTRIC HAMMER

HEAVY DUTY, Capacity up to 1" Star Drill—U-100 Thor Hammer

The Thor U100 portable electric hammer has a more powerful blow than any hammer of comparable size and capacity. Only 14 pounds in weight and but 13½ inches long, it has a capacity in concrete up to a 1-inch star drill. In stone, wood, and metal there are hundreds of jobs of drilling, channeling, demolition, cleaning out mortar, web cutting, removing form marks, cutting, gouging, shaping, chipping, scaling, bushing and the like that the Thor hammer will do better and faster.

The powerful Thor motor is particularly designed for heavy duty hammer service. Power, portability, and balanced weight all combine to provide easy handling and dependable performance. You can use the Thor hammer for construction work, maintenance, repairs, installation, renovation. And on each job the tremendous power and ease of handling will show up in terms that really count to you . . . the hours and dollars you save.

The specially designed, heavy-duty universal motor is housed at right angles to the barrel of the piston and transmits power through heavy duty, helical cut gears. Full ball bearing construction; all bearings sealed

against dust and dirt. Patented Thor tangential ventilation. Hammer is easily dismantled for inspection and cleaning.

EQUIPMENT

STANDARD—Nozzle to take .497" round x 1.75" long shank. Grip handle with heavy duty, two-pole, momentary switch. 3-conductor cable with ground wire and plug. One ⅝" Star Drill; one turning handle; one ejector pin; one extra rubber sling shot; one metal carrying case.

OPTIONAL—Nozzle to take combination .432" hex. and .497" rd. x 1.75" long shank. Cap fitted with tool retainer spring.

EXTRA—Rawl-Chucks available at additional charge of \$5.00 each.

See page 52 for electric hammer tools and accessories.

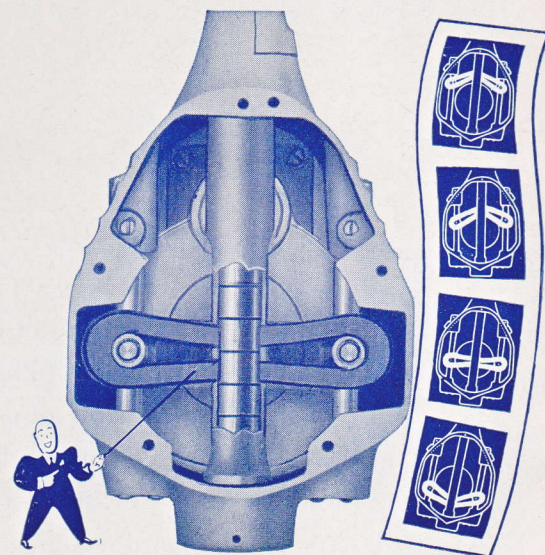
REASONS FOR THOR HAMMER'S GREATER PERFORMANCE

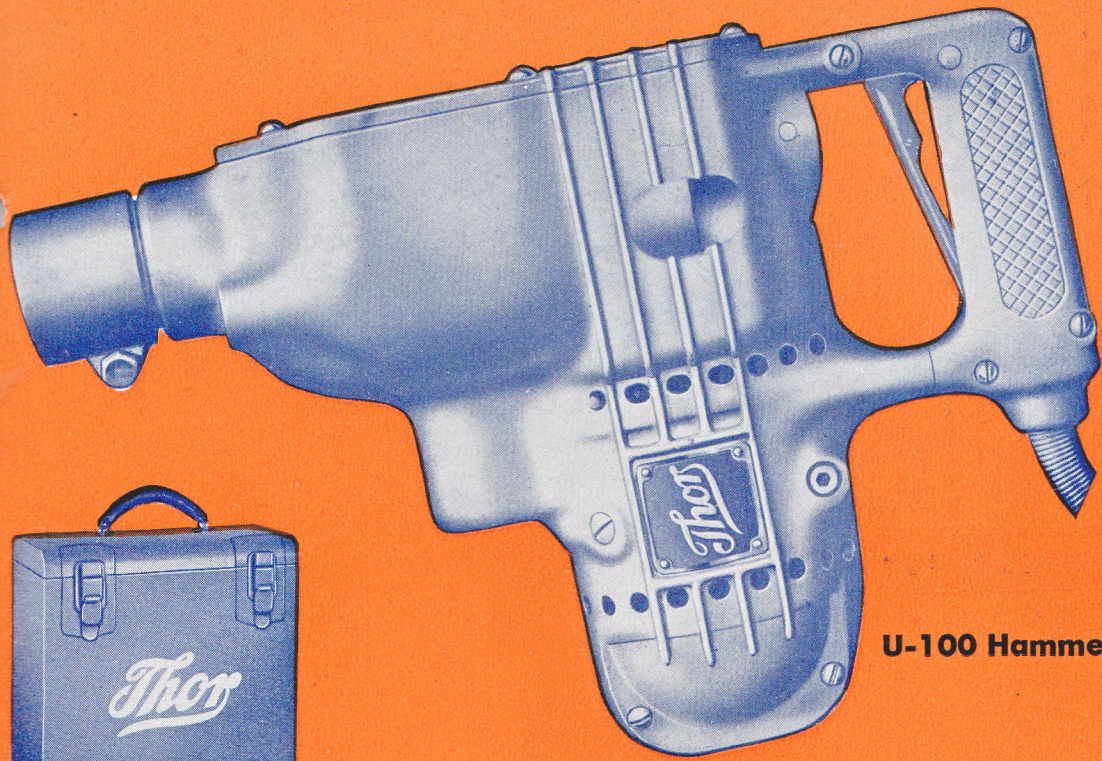
1. **Hardened Nozzle Bushing**—resists wear and is a separate replacement part.
2. **Free-Running Piston**—rides in guide sleeve with no rigid connection to gear train . . . reduces vibration and wear.
3. **Easy to Dismantle**—removal of 5 screws loosens large cover plate for inspection or changing of SLING-SHOT Rubber Connector.
4. **Tangential Type Ventilation**—a patented Thor feature that insures maximum cooling efficiency.
5. **Large Ball Bearings**—on all rotating parts . . . sealed against dust and dirt.
6. **Momentary Grip Switch**—with push button lock . . . heavy duty, two-pole construction.
7. **Universal Motor**—special hammer design with patented Thor construction in hand made armature and commutator . . . and patented flexible lead connections to commutator which prevent crystallization and breaking off of lead wires.
8. **Dow Metal Housing**—for maximum strength and durability combined with light weight.
9. **Heavy Duty, Heat Treated Gears**—helical cut and ball bearing mounted.

Sling Shot Drive!

PACKS MORE POWER INTO EVERY BLOW!

The Thor hammer's radically different "Sling-Shot Drive" is a shock-proof rubber connection that drives the piston in powerful hammer action. It whips the piston back and forth 1600 times per minute, acting as both power accumulator and shock absorber. The blow of the piston is not felt by the operator nor is it transmitted to the gears or motor.





Metal Carrying Case

U-100 Hammer

SPECIFICATIONS

HAMMER

Size Number U100

Capacity 1" Star Drill

Blows Per Minute 1600

Length 13 1/2"

Weight 14 lbs.

Shipping Weight 32 lbs.

(with carrying case)

Code Word ELHAM

PRICE \$110.00

When ordering, specify voltage

FOR DOZENS OF HEAVY DUTY JOBS



IN STONE . . . The Thor hammer performs in stone, concrete, asphalt, brick and composition materials, doing scores of jobs faster.



IN WOOD . . . Cutting, gouging, and shaping in wood can be done swiftly and surely with the Thor hammer and the correct hammer tools.



IN METAL . . . Chipping and scaling to remove rust, paint, weld spatter, scale, and similar accumulations are a few of Thor hammer's jobs in metal.

Thor

PORTABLE ELECTRIC SAWS

HEAVY DUTY—6, 7¼, 9, 10 and 12 in. Diameter Blades

Thor portable electric saws are lighter, easier to handle, and will perform more time-saving jobs better and faster. This performance is due to advanced engineering, accurate construction, and fine workmanship. Thor saws have convenient grip handles for utmost comfort in operation. Almost fool proof safety is assured by either telescopic or gravity operated guards.

A SAW FOR EVERY JOB

No. 2A—Form work, maintenance work in industrial plants, building stock bins and partitions, cutting freight car bracing timbers. Tuck pointing.

No. 3A—An excellent saw for all production sawing of studs, rafters, joists in framing buildings of all kinds. Cuts aluminum, copper and lead.

No. 4A—Designed specially for framing of house, school, church, factory, and similar structures. Heavy duty factory sawing. Cutting metals and compositions.

No. 6A—For mine construction, timber cutting on docks and dam superstructures. Railroad bridge construction, cutting ties. Cutting building tile and metals.

No. 2AG—All types of grooving operations in maintenance, construction or factory production work.

On Thor saws a universal motor is combined with a circular saw blade running parallel to the motor shaft and a rugged, compact worm-gear reduction unit. This right-angle drive transmits power to the blade at the most effective sawing speed. The worm for saws is chrome-nickel steel, heat-treated, and polished. Worm wheel is bronze alloy. Gears are installed in carefully matched sets. High-grade, ball-bearings are used throughout.

All models, except Groovers, are adjustable for both depth and bevel cutting and bases are swiveled to a maximum angle of 45°. "Sight" mark makes it easy to follow a line.

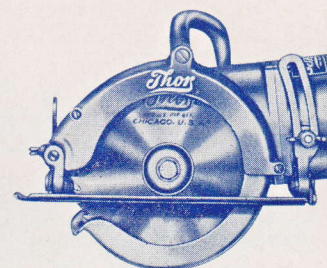
EQUIPMENT

STANDARD—One combination blade. 10 feet of 3-conductor, rubber-covered cord with 2-prong connector. Steel permanent carrying case. Socket wrench. Lubricant. 2-pole, momentary-contact trigger switch in grip handle. (Blade and carrying case are not furnished with groovers.)

See page 53 for saw blades and abrasive discs.

AUTOMATIC TELESCOPIC GUARD

Shields the saw blade when not cutting. When saw is fed into the work the bottom of the guard moves upward, on ball bearings, into the upper housing. This guard is standard on Nos. 2A, 3A, 4A, and 6A.



SPECIAL LUBRICANTS FOR THOR SAWS

AND FOR BELT SANDERS (Pages 60 and 61)

It is highly important that the proper lubricant is used in Thor Saws and Belt Sanders to insure positive lubrication under all operating conditions. Use only these genuine Thor Lubricants which, after thorough research, have been developed especially for Saws and Belt Sanders.

For current models Nos. 2A, 3A, 4A, and 6A Saws; and for worm gear case of Torpedo-Plane Belt Sanders:

No. 249	8 ounce can Lubricant.....	\$0.50
No. 264	1-pint can Lubricant.....	.90
No. 267	½-gallon can Lubricant.....	2.00

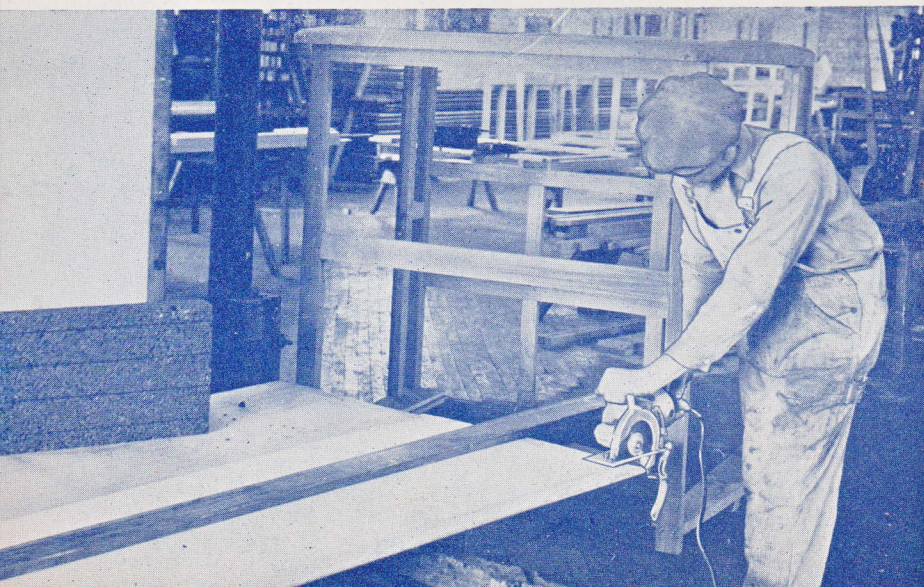
For Nos. 7 and 8 Belt Sanders:

No. 222	½-pound tube Lubricant.....	\$0.50
No. 221	2-pound can Lubricant.....	1.20
No. 223	5-pound can Lubricant.....	2.50

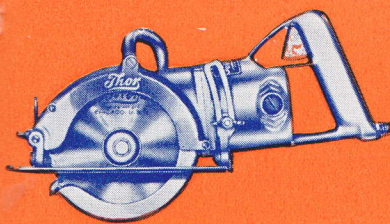
For chain case of Torpedo-Plane Belt Sanders:

No. 255	½-pound tube Lubricant.....	\$0.50
No. 254	2-pound can Lubricant.....	1.20
No. 256	5-pound can Lubricant.....	2.50

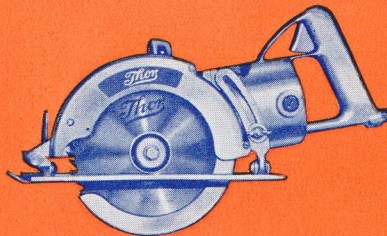
WHEN ORDERING LUBRICANT
ALWAYS SPECIFY SIZE AND SERIAL NUMBER
OF TOOL



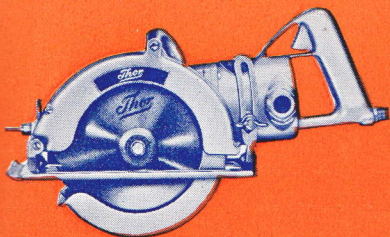
SAWS



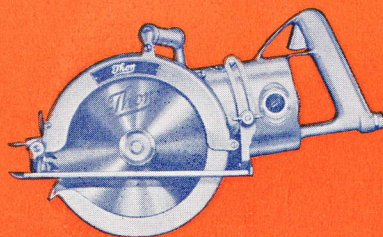
1A— 6" Blade



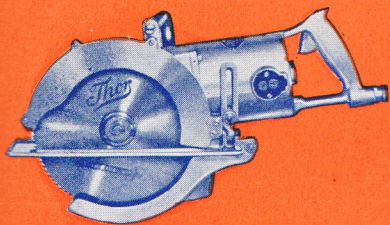
2A— 7 1/4" Blade



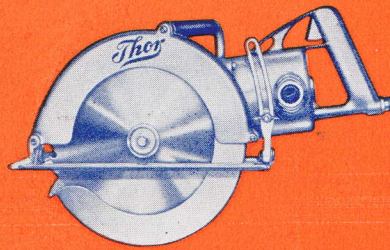
3A— 8 1/4" Blade



4A— 9" Blade

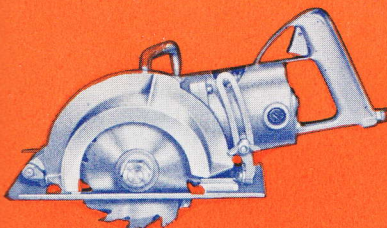


5— 10" Blade

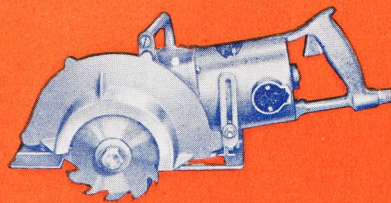


6A— 12" Blade

GROOVER SAWS



2AG— 6" Groover



5G— 6" Groover

SPECIFICATIONS

SAWS

Size Number	1A	2A
Blade diameter	6" Heavy Duty	7 1/4" Heavy Duty
Free Speed of Blade	3400 RPM	3200 RPM
Cutting Capacity		
Maximum in wood	1 7/8"	2 3/8"
Depth of bevel cut at 45°	1 1/8"	1 3/4"
Length Overall	15 1/2"	18"
Net Weight	11 1/2 lbs.	15 lbs.
Shipping Weight	20 lbs.	35 lbs.
Code Word	ENSKS	ENSKI
PRICE	\$75.00	\$105.00

Size Number	3A	4A
Blade diameter	8 1/4" Heavy Duty	9" Heavy Duty
Free Speed of Blade	3000 RPM	3200 RPM
Cutting Capacity		
Maximum in wood	2 5/8"	2 7/8"
Depth of bevel cut at 45°	2 1/8"	2 3/8"
Length Overall	18"	19"
Net Weight	18 1/2 lbs.	22 lbs.
Shipping Weight	40 lbs.	48 lbs.
Code Word	ENSKU	ENSKD
PRICE	\$119.00	\$135.00

Size Number	5	6A
Blade diameter	10" Heavy Duty	12" Heavy Duty
Free Speed of Blade	2600 RPM	2400 RPM
Cutting Capacity		
Maximum in wood	3 3/4"	4 3/8"
Depth of bevel cut at 45°	2 5/8"	3 1/8"
Length Overall	21"	22"
Net Weight	26 lbs.	32 lbs.
Shipping Weight	53 lbs.	65 lbs.
Code Word	ENSKE	ENSKO
PRICE	\$180.00	\$195.00

GROOVER SAWS

Size Number	2AG	5G
Blade diameter	6" Groover	6" Groover
Free Speed of Blade	3200 RPM	2600 RPM
Cutting Capacity		
Depth	1 3/4"	1 3/4"
Width	1"	2"
Length Overall	18"	21"
Net Weight	17 lbs.	30 lbs.
Shipping Weight	39 lbs.	57 lbs.
Code Word	ENSKL	ENSKM
PRICE	\$135.00	\$205.00

When ordering, specify voltage

Thor HAMMER TOOLS

For Use with No. U-100
Portable Electric Hammer

With these accessories the Thor Electric Hammer becomes a highly versatile tool, able to do hundreds of different jobs faster and better. 12 different types of tools are available for a wide variety of heavy duty applications in stone, wood, metal.

Accessories

Number	Description	Price
61076	Holder for Taper Shank Tools.....	\$4.50
61090	Ejector Pin.....	.30
68104	Turning Wrench for Straight Shank Tools.....	.75

Star Drills

Taper Shank

5" Drilling Depth			9" Drilling Depth			12" Drilling Depth		
Size No.	Size of Point	Price	Size No.	Size of Point	Price	Size No.	Size of Point	Price
70336	1/4	.80	70345	3/8	\$1.10	70353	1/2	\$1.20
70337	5/16	.80	70346	1/2	1.10	70354	1/2	1.20
70338	3/8	.80	70347	5/8	1.10	70355	3/4	1.20
70339	1/2	.80	70348	3/4	1.10	70356	3/4	1.35
70340	1/2	.80	70349	1 1/8	1.25	70357	7/8	1.45
70341	3/4	.80	70350	3/4	1.25	70358	1	1.60
70342	3/4	.95	70351	7/8	1.40			
70343	7/8	1.05	70352	1	1.50			
70344	1	1.15						

18" Drilling Depth			24" Drilling Depth		
Size No.	Size of Point	Price	Size No.	Size of Point	Price
70359	1/2	\$1.45	70364	1/2	\$1.70
70360	3/4	1.45	70365	3/4	1.70
70361	3/4	1.60	70366	3/4	1.85
70362	7/8	1.70	70367	7/8	2.00
70363	1	1.80	70368	1	2.10

Straight Shank

5" Drilling Depth			9" Drilling Depth			12" Drilling Depth		
Size No.	Size of Point	Price	Size No.	Size of Point	Price	Size No.	Size of Point	Price
70408	1/4	\$1.15	70417	1/4	\$1.35	70426	1/4	\$1.50
70409	5/16	1.15	70418	5/16	1.35	70427	5/16	1.50
70410	3/8	1.15	70419	3/8	1.35	70428	3/8	1.50
70411	1/2	1.25	70420	1/2	1.45	70429	1/2	1.60
70412	1/2	1.25	70421	1/2	1.45	70430	1/2	1.60
70413	3/4	1.30	70422	3/4	1.50	70431	3/4	1.65
70414	3/4	1.30	70423	3/4	1.50	70432	3/4	1.65
70415	7/8	1.30	70424	7/8	1.50	70433	7/8	1.65
70416	1	1.50	70425	1	1.70	70434	1	1.85

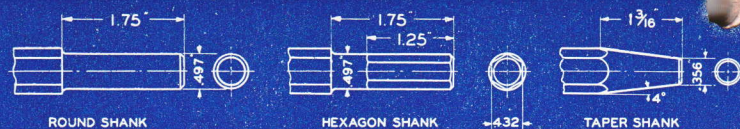
18" Drilling Depth			24" Drilling Depth		
Size No.	Size of Point	Price	Size No.	Size of Point	Price
70435	1/2	\$1.90	70440	1/2	\$2.50
70436	3/4	1.95	70441	3/4	2.50
70437	3/4	1.95	70442	3/4	2.60
70438	7/8	1.95	70443	7/8	2.60
70439	1	2.15	70444	1	2.75

Standard Chisels

Description	No.	Price	No.	Price	No.	Price
	5" Long		9" Long		12" Long	
Std. Chisel—Straight Shank.....	71263	\$1.25	71264	\$1.45	71265	\$1.65
Std. Chisel—Hexagonal Shank.....	71266	1.25	71267	1.45	71268	1.65
Std. Bull Point—Straight Shank....	71269	1.25	71270	1.45	71271	1.65

Miscellaneous Tools

Number	Description	Price
68103	Standard Mortar Chisel—Straight Shank.....	\$1.30
68106	Bush Hammer—(Head 1/2" Sq.)—Straight Shank.....	4.50
68408	Web Cutting Tool—Hexagonal Shank.....	6.75
68409	Flat Wood Chisel (2 1/8" blade)—Hexagonal Shank.....	3.00
68410	Wood Gouge—Hexagonal Shank.....	4.00
68411	Scaling Chisel—(2" blade)—Straight Shank.....	2.35
67412	Scaling Chisel—(1 1/2" blade)—Straight Shank.....	2.25



Nos. 70336 - 70368 - Star Drills

Nos. 70408 - 70444 - Star Drills

Nos. 71263, 71264, 71265 - Standard Chisels

Nos. 71269, 71270, 71271 - Standard Bull Points

No. 68103 - Mortar Chisel

No. 68106 - Bush Hammer

No. 68408 - Web Cutting Tool

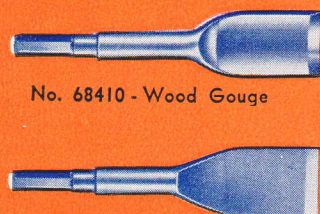
ACCESSORIES

No. 61076 - Holder for Taper Shank tools, right.

No. 68104 - Holder for Straight Shank tools, left.

No. 61090 - Ejector Pin (not shown).

Note: Hexagonal Shank tools require Hexagonal nozzle on hammer, which is optional equipment with U-100 Hammer.



No. 68409 - Flat Wood Chisel



No. 68411 - Scaling Chisel

No. 68412 - Scaling Chisel

Thor

SAW BLADES AND ABRASIVE DISCS

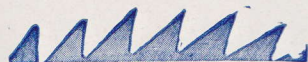
For use with
Thor Electric Saws

SAW BLADES



Combination—A blade designed for all around work; suitable for ripping or cross-cutting.

No. 376.....	Diam.	6 in.....	Each	\$2.95
No. 377.....	Diam.	7 1/4 in.....	Each	3.50
No. 378.....	Diam.	8 in.....	Each	3.95
No. 388.....	Diam.	8 1/4 in.....	Each	4.25
No. 379.....	Diam.	9 in.....	Each	4.60
No. 380.....	Diam.	10 in.....	Each	4.95
No. 382.....	Diam.	12 in.....	Each	5.95



Cut-Off—A most desirable blade for all types of cross cut work.

No. 309.....	Diam.	6 in.....	Each	\$2.95
No. 356.....	Diam.	7 1/4 in.....	Each	3.50
No. 293.....	Diam.	8 in.....	Each	3.95
No. 350.....	Diam.	8 1/4 in.....	Each	4.25
No. 357.....	Diam.	9 in.....	Each	4.60
No. 324.....	Diam.	10 in.....	Each	4.95
No. 334.....	Diam.	12 in.....	Each	5.95



Fine Tooth—This blade is the lightest gauge (thinnest) blade cataloged and is fitted with very small teeth. It is used primarily for cutting Celotex or similar soft wallboard.

No. 280.....	Diam.	6 in.....	Each	\$3.25
No. 366.....	Diam.	7 1/4 in.....	Each	3.50
No. 281.....	Diam.	8 in.....	Each	3.95
No. 361.....	Diam.	9 in.....	Each	4.95



Friction—This is a shallow notched steel disc for cutting by friction or burning, light gauge flat or corrugated sheets of iron. Use only with No. 2A saw or larger.

No. 331.....	Diam.	6 in.....	Each	\$6.50
No. 332.....	Diam.	8 in.....	Each	9.00



Grooving—The following 5 1/2 in. diameter grooving blades are suitable for plowing with or against the grain.

No. 300.....	Width	1/8 in.....	Each	\$ 6.50
No. 305.....	Width	3/16 in.....	Each	7.75
No. 301.....	Width	1/4 in.....	Each	8.00
No. 302.....	Width	3/8 in.....	Each	9.00
No. 303.....	Width	1/2 in.....	Each	10.50
No. 308.....	Width	13/16 in.....	Each	12.00



Special High-Speed Hollow Ground Blades—Recommended for cutting sheet and tube copper, non-ferrous metals such as brass, bronze, and aluminum.

No. 318.....	Diam.	6 in.....	Each	\$6.80
No. 333.....	Diam.	8 in.....	Each	9.00



Mitre—A blade for very smooth cutting. Ideal for interior finish. Hollow ground.

No. 314.....	Diam.	6 in.....	Each	\$5.40
No. 362.....	Diam.	7 1/4 in.....	Each	6.20
No. 315.....	Diam.	8 in.....	Each	6.80
No. 363.....	Diam.	9 in.....	Each	7.90
No. 316.....	Diam.	10 in.....	Each	8.60

To provide long life and most economical service Thor saw blades are made of the correct gauge to hold the set; the teeth of the blades are properly shaped for the different types of work intended; and the metal is correctly and uniformly tempered and tensioned. The high quality of Thor steel blades guarantees satisfaction to users of Thor saws. Arbor on all Thor Saws is the same size, making blades interchangeable.



Flooring—Excellent for repairing old floors. Shipping clerks also find

it indispensable for opening boxes and crates where nails may be struck.

No. 347.....	Diam.	6 in.....	Each	\$3.25
No. 358.....	Diam.	7 1/4 in.....	Each	3.90
No. 348.....	Diam.	8 in.....	Each	4.40
No. 359.....	Diam.	9 in.....	Each	5.00
No. 349.....	Diam.	10 in.....	Each	5.60



Rip—This is the fastest cutting blade for rough work, rip or cut-off. If

rip cuts are to be made with Models No. 1A, 2A, or 4A saws, use combination blade.

No. 326.....	Diam.	10 in.....	Each	\$4.95
No. 330.....	Diam.	12 in.....	Each	5.95

ABRASIVE DISCS



For Concrete			For Asbestos Cement Sheets		
No.	Size		No.	Size	
CO-6	6"	Each \$1.90	AC-6	6"	Each \$1.90
CO-61	6"x1 1/4"	Each 2.10	AC-7	7 1/4"	Each 2.10
CO-62	6"x3/8"	Each 2.30	AC-8	8"	Each 2.20
CO-63	6"x3/8"	Each 2.50	AC-9	9"	Each 2.80
CO-7	7 1/4"	Each 2.10	AC-10	10"	Each 3.30
CO-71	7 1/4"x3/8"	Each 2.30	AC-12	12"	Each 4.40
CO-8	8"	Each 2.20			
CO-82	8"x1/4"	Each 2.60			
CO-9	9"	Each 2.80			
CO-10	10"	Each 3.30			
CO-12	12"	Each 4.40			
For Tile			For Cast Iron		
No.	Size		No.	Size	
TL-6	6"	Each \$1.90	CA-6	6"	Each \$1.90
TL-7	7 1/4"	Each 2.10	CA-7	7 1/4"	Each 2.10
TL-8	8"	Each 2.20	CA-8	8"	Each 2.20
TL-9	9"	Each 2.80	CA-9	9"	Each 2.80
TL-10	10"	Each 3.30	CA-10	10"	Each 3.30
TL-12	12"	Each 4.40	CA-12	12"	Each 4.40
For Alloy Steel			For Marble		
No.	Size		No.	Size	
AS-6	6"	Each \$1.90	MA-6	6"	Each \$1.90
AS-7	7 1/4"	Each 2.10	MA-61	6"x1 1/4"	Each 2.10
AS-8	8"	Each 2.20	MA-62	6"x1/4"	Each 2.30
AS-9	9"	Each 2.80	MA-7	7 1/4"	Each 2.10
AS-10	10"	Each 3.30	MA-8	8"	Each 2.20
AS-12	12"	Each 4.40	MA-9	9"	Each 2.80
			MA-10	10"	Each 3.30
			MA-12	12"	Each 4.40

Thor

PORTABLE ELECTRIC NIBBLER

FOR CUTTING SHEET METAL AND TUBING—U1N Capacity: No. 20 Gauge Sheet Metal; No. 16 Gauge Aluminum

The U1N Nibbler is a Thor portable electric tool that cuts sheet metal and tubing, handling the work done by the ordinary portable electric shear in shop production and on-the-job installations; aircraft and automobile manufacturing; sheet metal work; automotive body repair shops and similar applications in all metal working plants with surprising new ease and speed. And by cutting its own clearance, the Nibbler cuts corrugated and curved sheets without distortion.

Only nine inches long and weighing but $3\frac{3}{4}$ pounds, the U1N is perfectly balanced and compactly designed for easy, one-hand operation. It can be guided along any line or contour with unusual ease, cutting curves and circles on as small a radius as 1 inch; and tubing as small as $1\frac{1}{2}$ inches in diameter. The yoke-type, front-head of the Nibbler incorporates a punch that "nibbles" a rectangular shaving of metal at each upward stroke of the punch. The metal is fed at the proper rate auto-

matically, preventing overloading and stalling. The cutting punch and edge can be removed for resharpening.

EQUIPMENT

STANDARD—Recessed toggle switch. Adjustable yoke-type front-head. 3-conductor cable with ground wire and plug. Extra cutting blade. Adjusting wrench. Wrench for clamp screw.

SPECIFICATIONS

NIBBLER

Size Number U1N

Capacity.....#20 gauge
(.035")

Sheet Metal

#16 gauge
(.065")

Aluminum

Minimum Cutting Radius.....1"

Length 9"

Weight $3\frac{3}{4}$ lbs.

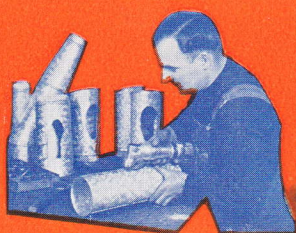
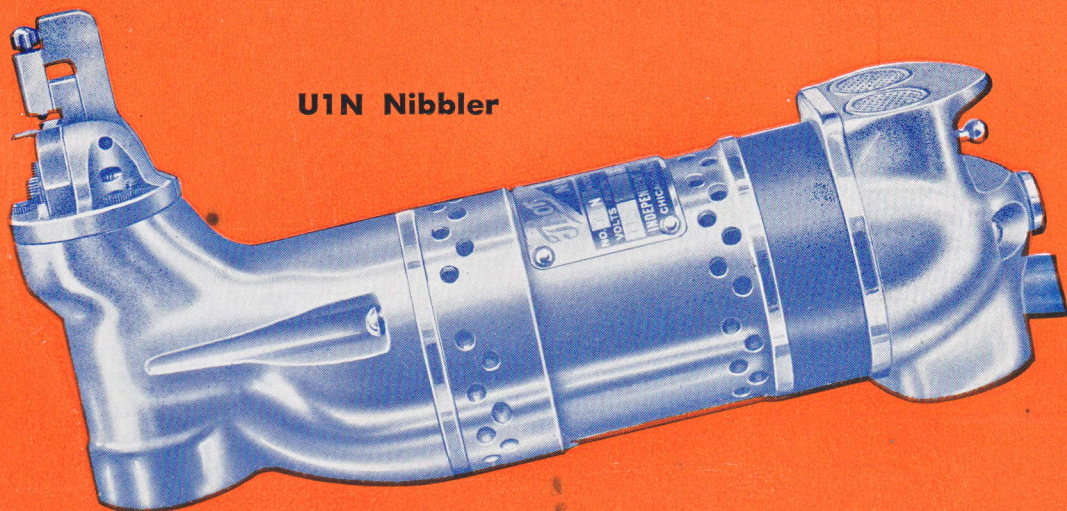
Shipping Weight 6 lbs.

Code Word ENIBL

PRICE\$60.00

When ordering, specify voltage

U1N Nibbler



Curves and circles with as small a radius as 1" can be cut with the Thor Nibbler



The Nibbler cuts its own clearance and will not curve or distort stock



The Nibbler cuts plain or corrugated stock with equal ease



Thor

PORTABLE ELECTRIC

GRINDERS

SANDERS

AND

POLISHERS

Power, handling ease and freedom from vibration are the important things you want in a sander or grinder. In the complete Thor line of sanders and grinders are incorporated the fine points of construction that insure these performance features. Weight and bulk have been cut to make these Thor tools trim and streamlined. Motors have plenty of reserve power to withstand hard usage. And, most vital of all, Thor Grinders have the exclusive Thor "Shock-Absorber" Spindle, which absolutely prevents vibration from reaching the motor.

LOOK AT THE RANGE!

Capacities.....4" to 7" wheels

Speeds.....1950 to 6000 RPM

Lengths.....14" to 26 3/8"

Weights.....7 3/4 lbs. to 18 1/4 lbs.

Thor

PORTABLE ELECTRIC GRINDERS

Modern, streamlined design, compact construction and light weight facilitate handling. Hexagon grips on both spindle housing and straight end handle prevent tool turning in operator's hand. The horizontal switch handle has rocker-type switch readily accessible at operator's fingers. Adjustable wheel guards can be turned to any desired position. Improved "Slot-draft" ventilation draws air in over motor and straight through the housing, preventing clogging and accumulation of dirt. Exhaust air is blown against wheel, directing chips and dust away from operator.

Like all Thor grinders, the U54 and U55 provide unusually smooth operation because of the Thor "Shock-Absorber" Spindle. Heat-treated, alloy-steel, spiral, hel-

HEAVY DUTY, 4 in. and 5 in. dia. Wheel Capacities, U54 and U55

These powerful machines incorporate the most advanced features of portable grinder construction for grinding, wire brushing, buffing and polishing all types of metal surfaces. They are ideal for removing rust, scale and paint; smoothing and touching up surfaces before finishing; grinding off rivets, bolts, pins and studs. Real time-savers in operations on ships, cars, tanks, bridges, frames, doors, bodies, fenders, and similar applications in all metal-working shops.

ical gears greatly reduce noise and prolong life of the gear teeth. The armature and spindle are provided with large, oversize ball bearings with convenient means for lubrication. The outer end of the spindle support has a labyrinth grease seal and is reinforced with a steel hub where the wheel guard is clamped. Commutator and switch are completely enclosed for protection from abrasive dust.

EQUIPMENT

STANDARD—3-conductor cable with ground wire and plug. Adjustable wheel guard. Straight horizontal handle with rocker-type switch.

Grinding wheel is *not* included in price of tool.

See pages 62 and 64 for Grinding Wheels and Accessories.

Thor

PORTABLE ELECTRIC GRINDERS

Exceptionally powerful and easy to handle, the U60 lowers maintenance costs because it is equipped with the reliable Thor motor and the "Shock-Absorber" Spindle which protects the motor from vibrations during the grinding operation. Shaped grips on both spindle housing and straight end handle prevent tool turning in operator's hand. Dust-sealed plunger switch is conveniently located in horizontal end handle. Adjustable wheel guard can be turned to any desired position. The U60 is equipped with nickel-chromium, alloy steel, heat-

HEAVY DUTY, 6 in. dia. Wheel Capacity—U60

The Thor U60 is a rugged tool designed for heavy-duty service. Like the machines described above, it is suitable for all types of grinding, wire brushing, buffing and polishing on all metal surfaces. Its greater power makes the U60 grinder especially desirable for continuous production jobs.

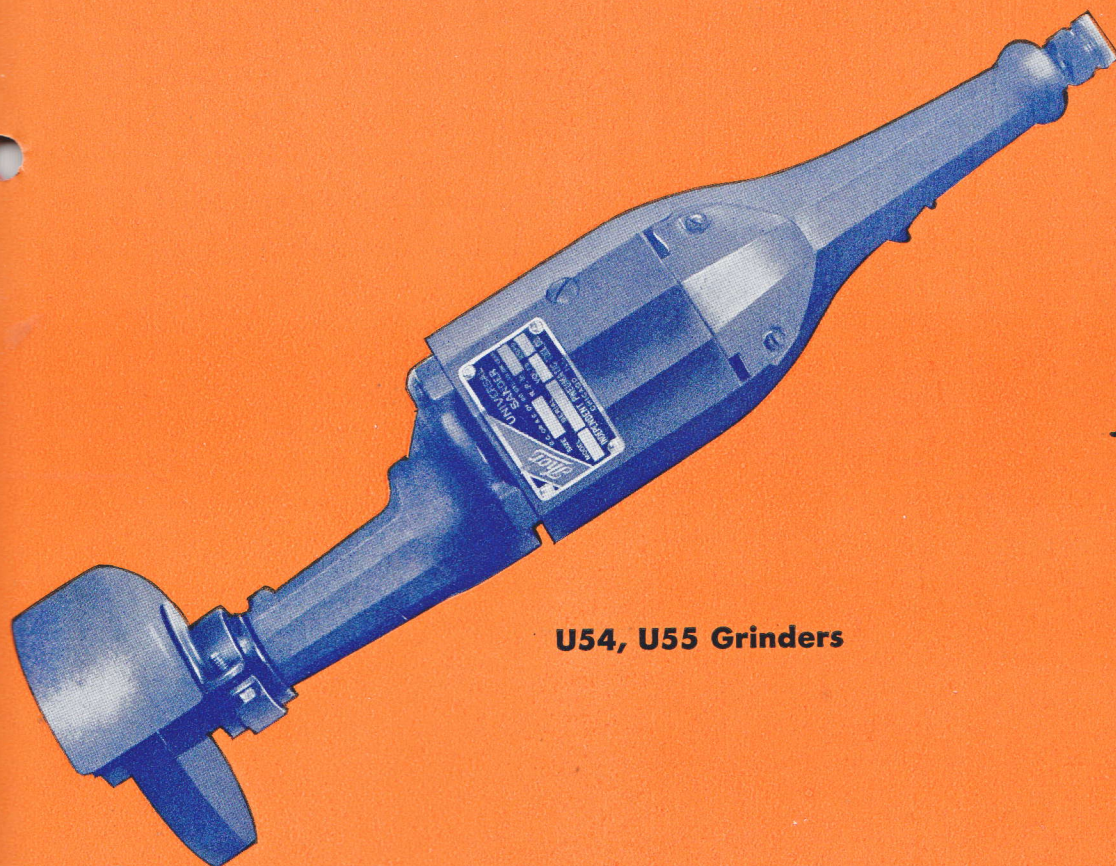
treated gears and oversize ball bearings. It has the Thor tangential ventilation system that keeps the motor from over-heating even when machine is operated continuously.

EQUIPMENT

STANDARD—3-conductor cable with ground wire and plug. Adjustable wheel guard. Suspension eye bolt. Straight horizontal handle with plunger switch.

Grinding wheel is *not* included in price of tool.

See pages 62 and 64 for Grinding Wheels and Accessories.



U54, U55 Grinders

SPECIFICATIONS

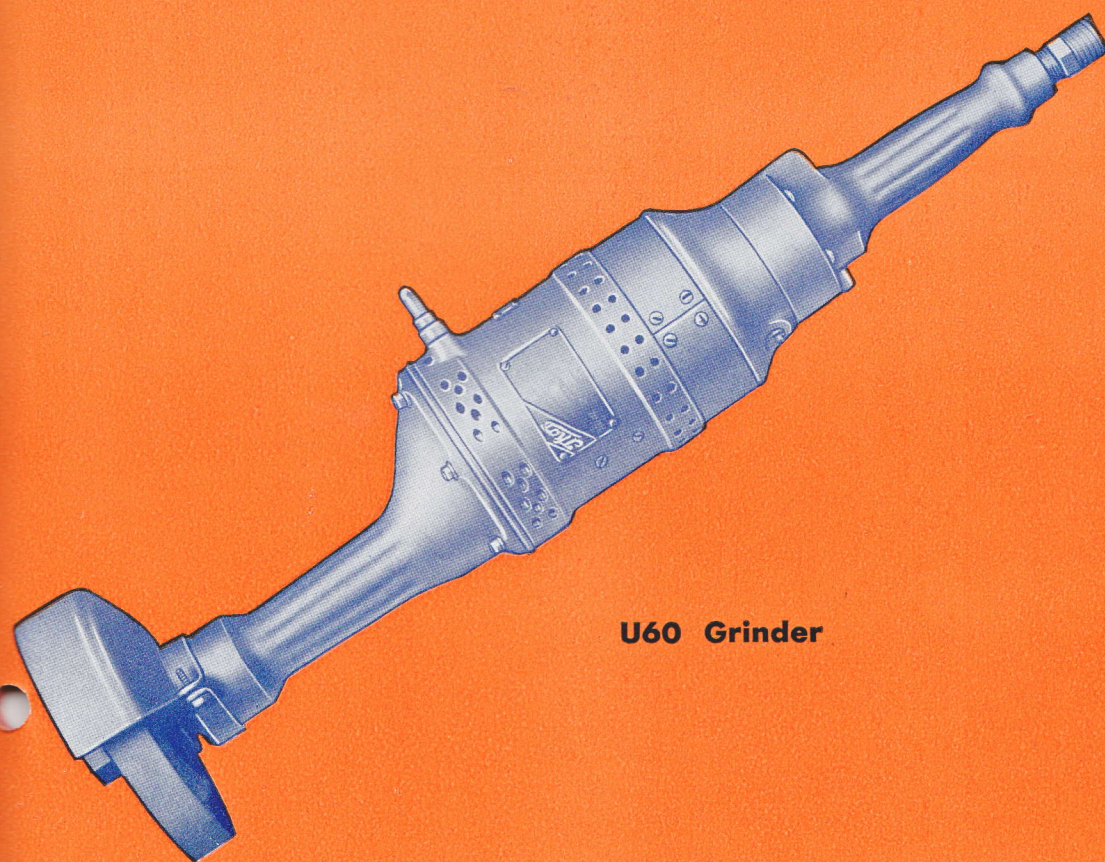
U54 and U55 GRINDERS

Size Number U54
Wheel Capacity 4"
Free Speed 6000 RPM
Length 19½"
Weight 10 lbs.
Shipping Weight 18 lbs.
Code Word EGNEX
PRICE\$62.00

Size Number U55
Wheel Capacity 5"
Free Speed 4500 RPM
Length 19½"
Weight 10¼ lbs.
Shipping Weight 18 lbs.
Code Word EGNEY
PRICE\$80.00

Grinding wheel is *not* included
in price of tool.

When ordering, specify voltage



U60 Grinder

SPECIFICATIONS

U60 GRINDER

Size Number U60
Wheel Capacity 6"
Free Speed 4000 RPM
Length 24½"
Weight 20 lbs.
Shipping Weight 29 lbs.
Code Word EGNEW
PRICE\$100.00

Grinding wheel is *not* included
in price of tool.

When ordering, specify voltage.
Not available in 32-volt.

Thor

PORTABLE ELECTRIC SANDERS

Full ball-bearing construction delivers maximum torque to disc. The accurately-cut, spiral bevel gears, of heat-treated, alloy steel, provide smooth, quiet, efficient transmission of power. Commutator and switch are protected against abrasive dust and dirt. Non-clog Thor tangential ventilation prevents overheating. Reversible side handle can be used on either side of machine for right or left hand operation.

Sander can be taken apart for inspection or cleaning with exceptional ease. Motor housing can be opened

STANDARD DUTY, 7 in. dia. Disc Capacity—U58

This compact, powerful sander is recommended for general service on production and maintenance in sanding, grinding, cleaning, preparing automobile bodies and fenders for paint jobs, smoothing wood surfaces, and every application which might involve sandpaper or emery. Perfect balance and ease of handling permit most efficient operation.

for motor inspection during operation simply by removing two brush covers.

EQUIPMENT

STANDARD—3-conductor cable with ground wire and plug. Straight handle with rocker-type switch. Detachable side handle, which can be used on either side of machine. 7 inch flexible pad. Box of three assorted abrasive discs, (1 coarse, 1 medium, 1 fine).

See page 64 for sanding discs and accessories.

Thor

PORTABLE ELECTRIC SANDERS

The U69 is identical with the U68 except that it is equipped with a 9 inch dia. disc and because of the consequent greater load, it is recommended only for standard-duty service, not constant production operation.

The U67 machine is the same as the U68 except that it is equipped with a cone shaped cup wheel; and a longer spindle to give additional bearing support to the grinding wheel.

Although employing heavier construction throughout, the U68 and U69 are of the same design as the U58 light-duty sander described above. The same features of perfect balance, ease of inspection and cleaning, and abundant power assure efficient operation. In addition, extra-sturdy spiral-bevel gears in reinforced gear housing

HEAVY DUTY, 7 in. and 9 in. dia. Disc Capacity — U68 and U69

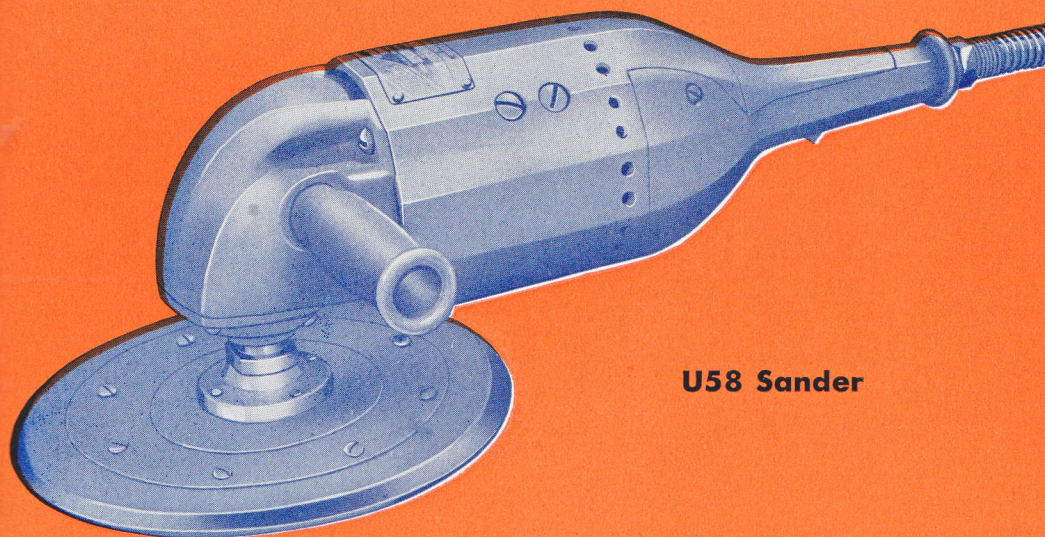
Into the U68 heavy-duty 7-inch sander has been built a motor with surplus power to make this tool ideal for the most difficult sanding jobs where constant, severe service is required. The powerful motor not only enables it to do more work on continuous high speed production service under severe conditions, but also provides a factor of safety which greatly lengthens motor life.

provide durability to withstand rough handling. Commutator and switch are protected against dust and dirt; Thor non-clog, tangential ventilation insures cool motor operation. Reversible side handle can be used on either side of machine for right or left hand operation.

EQUIPMENT

STANDARD (for all tools)—3-conductor cable with ground wire and plug. Straight handle with rocker type switch. Detachable side handle, which can be used on either side of machine. Box of three assorted abrasive discs. **U68:** 7" flexible pad. **U69:** 9" flexible rubber pad. **U67:** cone shaped cup wheel, 6" x 2" x 7/8" hole. Adjustable wheel guard.

See page 64 for sanding discs and accessories.



U58 Sander

SPECIFICATIONS

U58

SANDER

Size Number **U58**

Capacity 7" dia. disc

Free Speed 3800 RPM

Length 14 1/2"

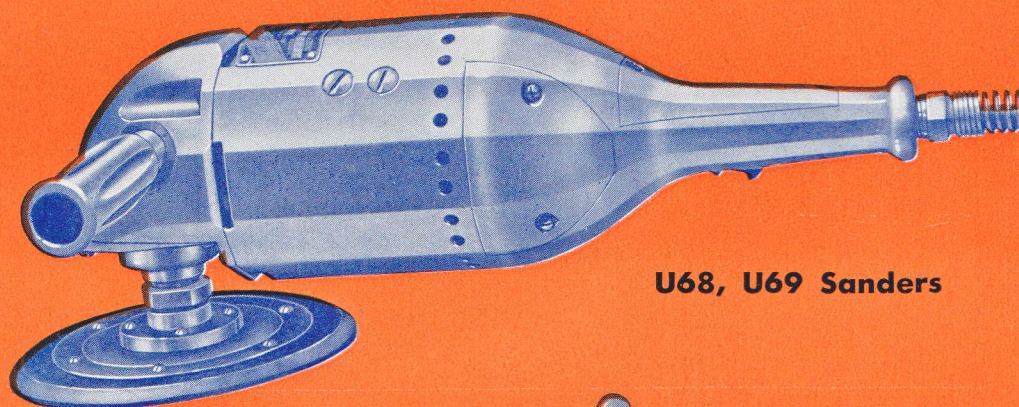
Weight 9 1/2 lbs.

Shipping Weight 14 lbs.

Code Word **ENODI**

PRICE \$48.00

When ordering, specify voltage



U68, U69 Sanders

SPECIFICATIONS

SANDERS AND GRINDERS

Size Number **U68**

Capacity 7" diam. disc

Free Speed 4000 RPM

Length 16 1/2"

Weight 16 3/4 lbs.

Shipping Weight 24 lbs.

Code Word **ENODU**

PRICE \$75.00

Size Number **U69**

Capacity 9" diam. disc

Free Speed 4000 RPM

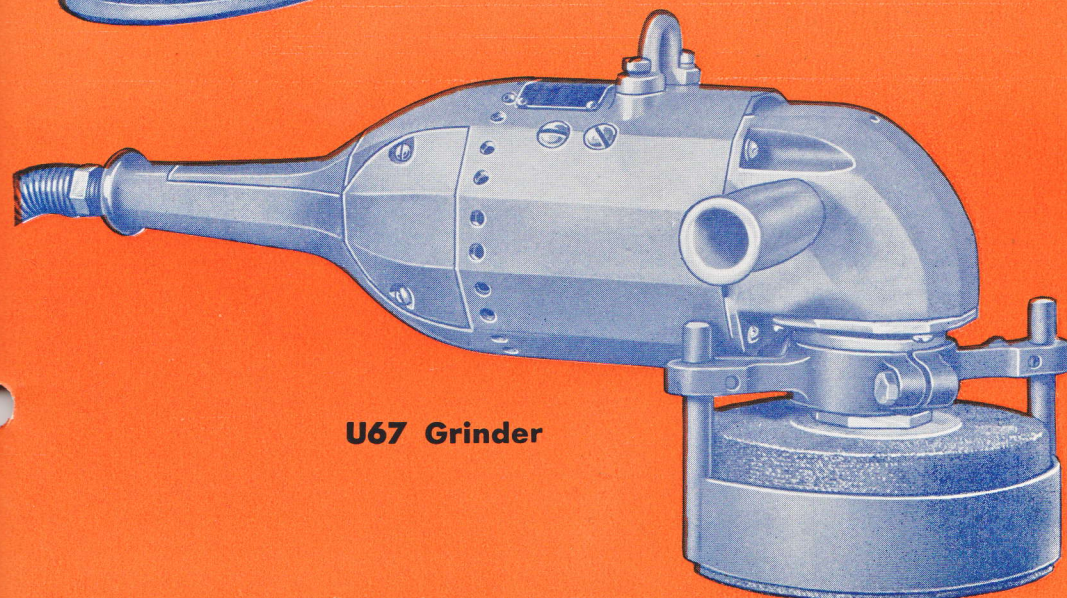
Length 16 1/2"

Weight 16 3/4 lbs.

Shipping Weight 24 lbs.

Code Word **ENODY**

PRICE \$78.00



U67 Grinder

Size Number **U67**

Capacity 6" Cup Wheel

Free Speed 4000 RPM

Length 16 3/8"

Weight 16 3/4 lbs.

Shipping Weight 24 lbs.

Code Word **ENODO**

PRICE \$75.00

When ordering, specify voltage

Thor

PORTABLE ELECTRIC POLISHERS

Both of these polishers are of the heavy duty type, but the U70 is designed for extensive heavy duty production service where difficult surfaces must be polished continuously.

These are rugged tools, equipped with a powerful Thor motor. Armature and spindle run on ball bearings and the gears are of nickel-chromium, heat-treated alloy steel. The shaped grip of the straight end handle has a dust-proof, rocker type switch. The detachable side handle may be used on either side of machine for right

HEAVY DUTY, 7 in. Pad Capacity—U38 and U70

These machines handle any polishing or buffing job quickly and efficiently. Super-powered, they have the correct spindle speed and torque to polish surfaces to a hard, durable finish that closely approximates the original. For cleaning all types of metal surfaces and for rubbing-down new paint jobs they are ideal. Light weight and perfect balance assure handling ease.

or left hand operation. Motor can be inspected while operating simply by removing two brush covers, and the entire unit is easily dismantled for cleaning and repairs.

EQUIPMENT

STANDARD—3-conductor cable with ground wire and plug. Horizontal end handle with dust-proof, rocker-type switch. Detachable side handle. 7 in. flexible rubber pad. 7 in. felt cushion pad. 8" lambswool polishing pad.

See page 64 for polishing pads.

Thor

PORTABLE ELECTRIC BELT SANDERS

On all models abundant power is furnished by the over capacity universal motor. On Models Torpedo-Plane and Torpedo-Plane Jr., a worm drive to transverse shaft transmits power to rear roller through a link belt silent chain. On Nos. 7 and 8, pinion and drive gears are helical nickel steel, heat treated; bronze alloy idler. On Torpedo-Plane and Torpedo-Plane Jr., ball bearings on armature shaft; ball and Oilite bearings on transverse shaft. Oilite bearings on front and rear pulleys. On Nos. 7 and 8, ball bearings throughout. On Torpedo-Plane and Torpedo-Plane Jr., belt is easily centered by simple adjustment of control wheel. Belt tension is kept uniform by coil spring. On Nos. 7 and 8, belt can be quickly removed after release of spring tension by means of convenient handwheel. Belt is easily centered by wing nut adjustment. Belt tension kept uniform by coil spring.

LIGHT AND HEAVY DUTY—2¼ in. to 4½ in. Wide Belt Capacities

Here are the outstanding belt sanders on the market, offering quality construction and performance never before available. Lighter in weight and perfectly balanced, they speed work and produce a smooth, ripple-free finish many times faster and easier than sanding by hand. For all sanding on wood, stone, metals.

LIGHT DUTY BELT SANDER—The Torpedo-Plane Jr. is designed for light duty service in small wood working shops, cabinet shops, homecraftsman work and similar operations.

STANDARD DUTY BELT SANDER—The Torpedo-Plane is a standard duty machine for general purpose sanding on stone, wood and the harder metals.

HEAVY DUTY BELT SANDERS—Model No. 7 is designed for continuous, heavy duty service on the most difficult jobs. Model No. 8 is the same as the Model 7 except that it is provided with a dust collecting system which prevents "loading" of belts.

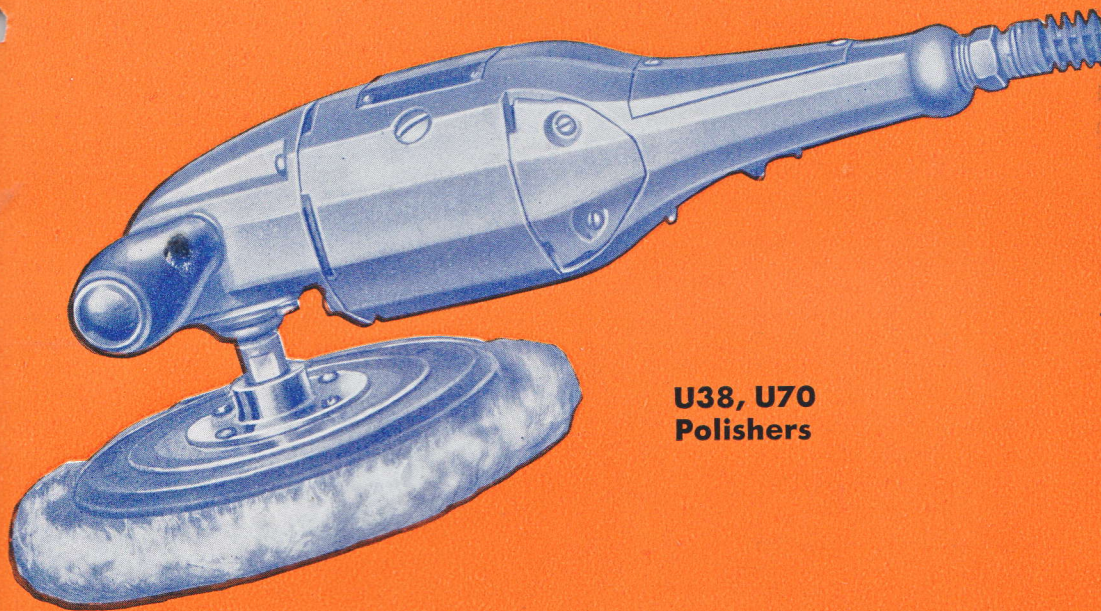
EQUIPMENT

STANDARD—3-conductor cable with ground wire and plug. One medium grade sanding belt. Necessary lubricant. Momentary trigger switch.

Torpedo-Plane and Torpedo-Plane Jr. have resilient backed metal pad. Models 7 and 8 have flexible asbestos pad.

See page 64 for polishing pads and sanding belts.

LUBRICATION:—For lubricants for Belt Sanders see Page 50



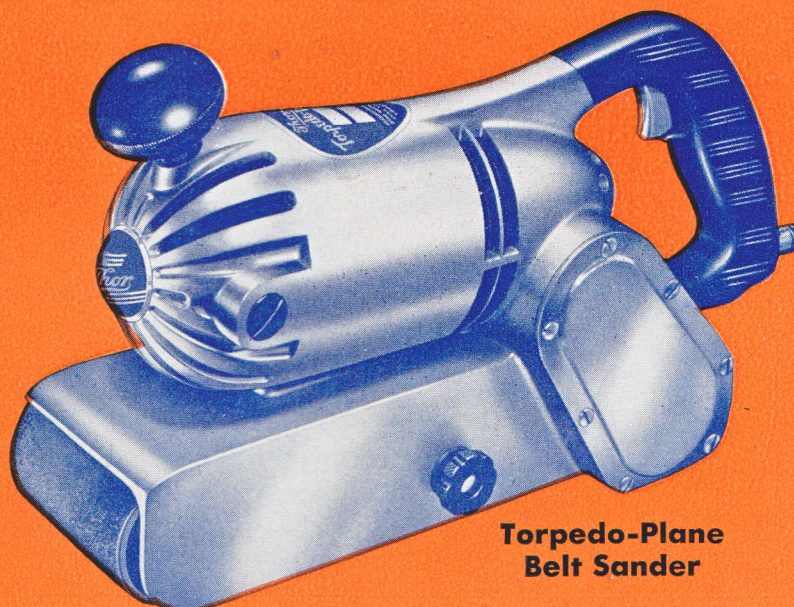
**U38, U70
Polishers**

SPECIFICATIONS POLISHERS

Size Number U38
Capacity 7" Pad
Free Speed 1950 RPM
Length 13 3/4"
Net Weight 7 3/4 lbs.
Shipping Weight 16 lbs.
Code Word ENODA
PRICE \$65.00

Size Number U70
Capacity 7" Pad
Free Speed 2300 RPM
Length 16 3/4"
Net Weight 16 1/2 lbs.
Shipping Weight 24 lbs.
Code Word ENOFA
PRICE \$75.00

When ordering, specify voltage



**Torpedo-Plane
Belt Sander**

SPECIFICATIONS BELT SANDERS

Size Number Torpedo-Plane
Belt Size 3" wide x
23 3/4" long
Belt Speed 1200 ft. per min.
Size 4 1/4" x 13 1/4" x 7" high
Weight 13 1/4 lbs.
Shipping Weight 24 lbs.
Code Word ENSKR
PRICE \$88.00

Size Number Torpedo-Plane Jr.
Belt Size 2 1/4" wide x
21 1/8" long
Belt Speed 600 ft. per min.
Size 3 3/4" x 12" x 7" high
Weight 9 1/2 lbs.
Shipping Weight 12 1/2 lbs.
Code Word ENSKT
PRICE \$49.50

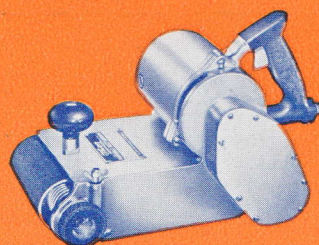
Size Number 7
Belt Size 4 1/2" wide x
26" long
Belt Speed 1500 ft. per min.
Size 7" x 14" x 9" high
Weight 18 lbs.
Shipping Weight 27 lbs.
Code Word ENSKG
PRICE \$105.00

Size Number 8
Belt Size 4 1/2" wide x
26" long
Belt Speed 1500 ft. per min.
Size 7" x 14" x 12" high
Weight 22 lbs.
Shipping Weight 35 lbs.
Code Word ENSKH
PRICE \$135.00

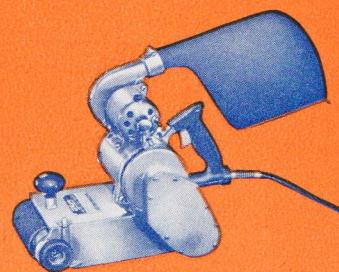
When ordering, specify voltage



**Torpedo-Plane Jr.
Belt Sander**



7 Belt Sander



8 Belt Sander

Thor

ELECTRIC BENCH GRINDERS

STANDARD AND HEAVY DUTY — 6 in., 7 in. and 10 in. Dia. Wheel Capacities

The new Thor Bench Grinders are an entirely revised line. More substantially built, with new features of construction and highly improved motor performance, they are suited for all-around service in grinding, buffing and wire wheel work. They cover a variety of service, from 6" general duty to 10" heavy duty. Each size has a completely enclosed motor—cool, quiet running, and dynamically balanced for vibrationless operation. All ball bearings are oversize and dust tight, and usually require only annual greasing attention. All sizes are provided with freely adjustable tool rests. Wheel guards are extra heavy; those on Sizes B-6, B-7, and B-10 are the enclosed type, with exhaust chute and tapered end bells to permit grinding on both sides of the wheels.

6" STANDARD DUTY — No. B-66

A ¼ h.p. ball bearing, single-phase, split-phase start-induction-run machine. Wheels, one fine and one medium, are 6" in diameter by ½" wide by ½" bore. Adjustable tool rests. Finish is smooth machine gray.

Furnished for 110-volt, single-phase, 60 or 50-cycle current. Speed, 3450 R.P.M. (If operated on 50 cycles, speed is 2850 R.P.M.)

6" HEAVY DUTY — No. B-6

A ½ h.p. ball bearing, single-phase, split-phase start-induction-run machine. 3450 R.P.M. at 60 cycles; 2850 R.P.M. at 50 cycles. High grade, finely balanced emery wheels, one fine and one medium, are 6" in diameter by ¾" wide by ½" bore. Two-way adjustable tool rests. Extended end bells. 10 ampere off-and-on built-in switch. Black crackle finish. Lustrous black enamel band, wheel guards

Furnished as standard for 110-volt or 220-volt, single-phase, 60 or 50-cycle current; or for 115-volt or 230-volt direct current.

Can also be furnished on special order for 220, 440 or 550-volt, 3-phase, 60 or 50-cycle current.

7" HEAVY DUTY — No. B-7

A ½ h.p. ball bearing, single-phase, capacitor-start-capacitor-run machine. 3450 R.P.M. at 60 cycles; 2850 R.P.M. at 50 cycles. The B-7 has a motor of high power factor and oil filled condenser in base. Having no centrifugal starting switch, commutator or brushes, the Size B-7 is better adapted to heavier duty. It will withstand repeated overloading and adverse starting conditions without burn-

ing out. High grade, finely balanced wheels, one fine and one medium, are 7" in diameter by 1" wide by ⅝" bore. Equipped with two-way adjustable tool rests. Extended end bells. 10-ampere off-and-on built-in switch. Finish is black crackle with lustrous black enamel band and wheel guards.

Furnished as standard for 110-volt or 220-volt, single-phase, 60 or 50-cycle current; or for 115-volt or 230-volt direct current.

Can also be furnished on special order for 220, 440 or 550-volt, 3-phase, 60 or 50-cycle current.

10" HEAVY DUTY — No. B-10

A new, 1 horsepower, 10" capacity machine built for continuous, heavy duty service. The No. B-10 is furnished with two high grade, finely balanced wheels, one fine and one medium grit. Finish is black crackle with lustrous black enamel band and wheel guards.

Furnished with 220-volt, 3-phase, 60 or 50-cycle motor as standard, the No. B-10 can also be supplied at no additional charge in 220, 440 or 550 volts, two or three phase, 60 or 50-cycle current. When operated on 50-cycle current, speed is 1425 R.P.M.

EQUIPMENT

STANDARD—All types are furnished with: one fine and one medium grinding wheel (for information on wheels, see table below); 10 feet of rubber covered cord including ground wire, except the 2-phase and 3-phase machines, which have a BX connector in the base for electrical connection to a wall type switch.

EXTRA—No. 64482 Safety Glass Eye Shields with 5" x 6" shatter-proof glass can be furnished for these grinders. See below.

Safety Glass Eye Shields for Bench Grinders

These Safety Eye Shields can be attached to any Thor Bench Grinder by bolting to the wheel guard. They give a full view of the grinding wheels and the work through the 5" x 6" shatter-proof safety glass. Fully adjustable; can be arranged in front of wheel at any angle or position desired. Packed in pairs complete with bolts. Catalog No. 64482; price, \$2.50 per pair.

Pedestal Stands for Bench Grinders

Stand No. B-7S is used with the No. B-66, B-6, and B-7 Bench Grinders. This stand has triangular cast-iron base 23" between feet; adjustable steel center column with range from 19" to 31" high; cast-iron tray top 14" x 18" with cooling cup for water cast in tray. Mounting holes are provided to take grinders listed above.

Stand No. B-10S is used with the No. B-10 Bench Grinder. This is a cast-iron, enclosed, cabinet-type stand with 12" x 18" oblong base; 32" high. Cast-iron tray-top is 15¼" x 25½" with cooling cup for water cast in tray. Mounting holes are provided to take B-10 Grinder.

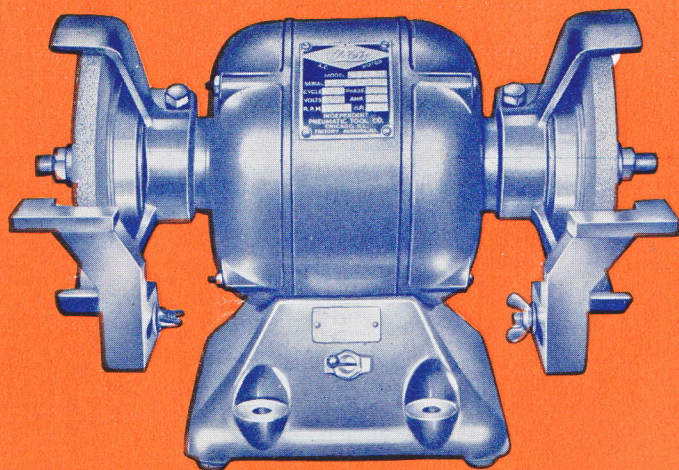


GRINDING WHEELS

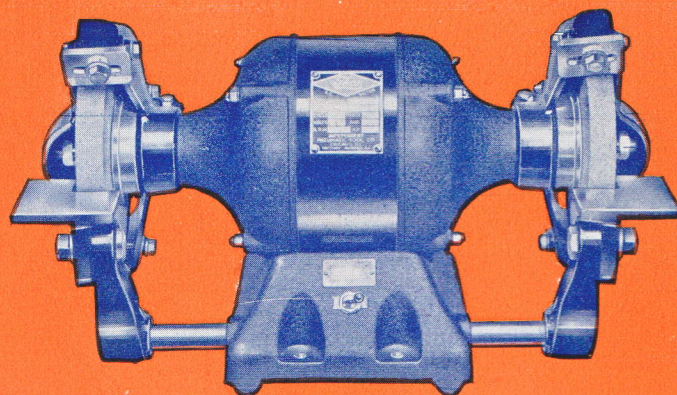
For Bench and Portable Grinders

The grinding wheels listed here have been selected for use with the machines listed below only after the most careful investigation and tests. They give the best results to be obtained for the applications on which they are put to work and assure highly efficient service with either bench or portable grinders.

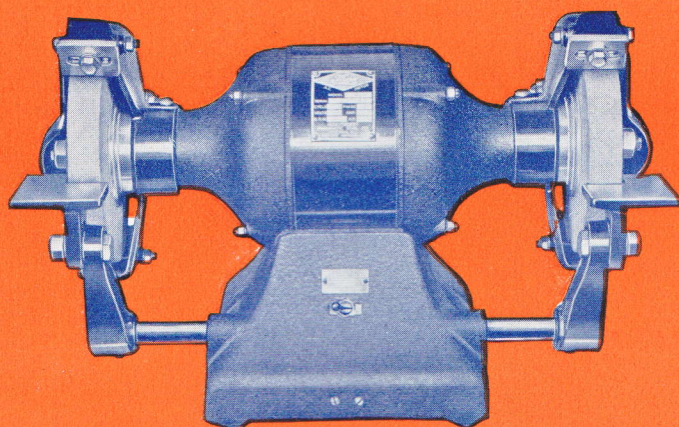
Used On	Catalog Number	Diameter	Width	Hole	Grade	Price
6" Bench Grinder	64427	6"	½"	½"	60K	\$2.00
	64428	6"	½"	½"	36G	2.00
6" Bench Grinder	64429	6"	¾"	½"	60K	2.50
	64430	6"	¾"	½"	36G	2.50
7" Bench Grinder	64431	7"	¾"	½"	60K	3.00
	64432	7"	¾"	½"	36G	3.00
7" Bench Grinder	64433	7"	1"	⅝"	60K	3.75
	64434	7"	1"	⅝"	36G	3.75
10" Bench Grinder	70752	10"	1"	¾"	60K	7.50
10" Bench Grinder	70753	10"	1"	¾"	36G	7.50
4" Portable Grinder	60268	4"	¾"	½"	General	1.35
5" Portable Grinder	60199	5"	¾"	½"	General	1.50
6" Portable Grinder	64435	6"	1"	⅝"	General	3.00



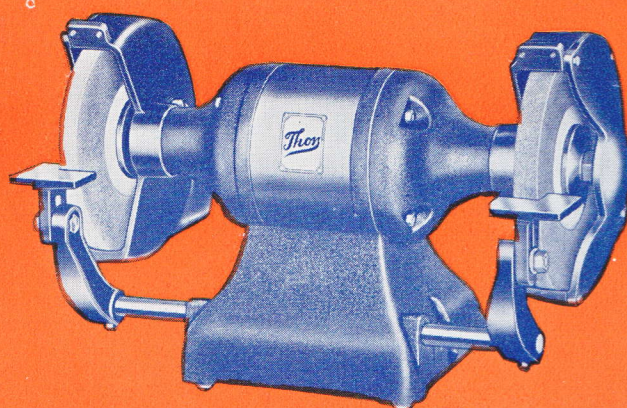
B-66 Bench Grinder



B-6 Bench Grinder



B-7 Bench Grinder



B-10 Bench Grinder

SPECIFICATIONS—BENCH GRINDERS

Single-Phase, 60-cycle or *50-cycle, A.C. Type

Size	Diam.	Wheel Size Width	Bore	Voltage	Load Speed R.P.M.	Weight Pounds	Shipping Weight	Code Word	Price
B-66	6"	1/2"	1/2"	110	3450	40 1/2	48 lbs.	EUDEB	\$24.00
B-6	6"	3/4"	1/2"	110	3450	50 1/2	73 lbs.	EUDEC	43.00
B-6	6"	3/4"	1/2"	220	3450	50 1/2	73 lbs.	EUDED	43.00
B-7	7"	1"	5/8"	110	3450	76	112 lbs.	EUDEF	62.00
B-7	7"	1"	5/8"	220	3450	76	112 lbs.	EUDEG	62.00

*50-cycle B-66, B-6 and B-7 machines have speed of 2850 R.P.M.

Additional Motor Types

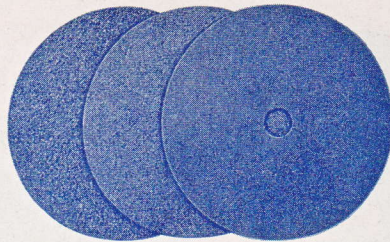
Size	Current	Voltage	Phase	Cycles	Code Word	Price
B-6	D.C.	115	—	—	EUDEJ	\$53.00
B-6	D.C.	230	—	—	EUDEK	53.00
B-6	A.C.	440	3	60 or 50	EUDEW	43.00
B-6	A.C.	550	3	60 or 50	EUDEX	43.00
B-6	A.C.	220	3	60 or 50	EUDEN	43.00
B-7	D.C.	115	—	—	EUDEP	74.00
B-7	D.C.	230	—	—	EUDER	74.00
B-7	A.C.	440	3	60 or 50	EUDEY	62.00
B-7	A.C.	550	3	60 or 50	EUDEZ	62.00
B-7	A.C.	220	3	60 or 50	EUDET	62.00

Three-Phase, 60-cycle, A.C. Type

B-10#	10"	1"	3/4"	220	1750	150	185 lbs.	EUDEV	\$95.00
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#Also furnished at no additional charge in 220, 440 or 550 volts, 2 or 3 phase, 60 or 50 cycle. Free-speed of 50-cycle type is 1425 R.P.M.
NOTE—On all A.C. Bench Grinders specify whether for 60 or 50-cycle.

ACCESSORIES FOR GRINDERS, SANDERS and POLISHERS



SANDING DISCS

Sanding and emery discs for the U58, U68 and U69 Thor Sanders are available in three grades: coarse, medium and fine. Type DS discs are particularly adaptable to metal; type X, to woodwork.

Grit	Grade	Symbol No. 7" Discs	Lots of 25	Price per 100	Symbol No. 9" Discs	Lots of 25	Price per 100
24	DS	59602	\$7.00	\$26.11	59610	\$9.00	\$34.20
36	DS	59603	7.00	23.57	59611	8.50	30.17
80	DS	59604	5.75	20.14	59612	7.25	25.27
1-50	X	59605	5.75	21.72	59613	7.25	27.24
1/0-80	X	59606	5.75	20.38	59614	7.25	25.27
3/0-120	X	59607	5.75	19.51	59615	7.25	24.41

These discs are shipped in packages of 25.



No. 61112
Lambswool Pad



No. 66720
Pneumatic Pad

LAMBSWOOL POLISHING PAD

The Lambswool Polishing Pad is used both for polishing and cleaning. It quickly banishes dirt and stain to produce a high lustre that closely approximates the original finish.

No. 61112 Lambswool Polishing Pad for 7" Polisher. Single Pad, \$1.25.

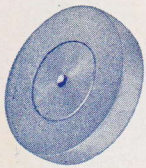
No. 64436 box of six Lambswool Polishing Pads for 7" Polisher, \$7.00 per box.

PNEUMATIC PAD

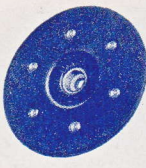
For safer, quicker, more thorough polishing. An air cushioned pad of "controlled flexibility" that hugs rounded curves and surfaces, gets into cracks and crevices. No. 66720—Price including Adapter, \$9.95. No. 66719, Lambswool Bonnet for Pneumatic Pad, \$1.50.

CLOTH BUFFING WHEEL

This Cloth Buffing Wheel is made of cotton rag and serves very well on light buffing work. For B-6 and B-66 Bench Grinders and for U54 and U55 Portable Grinders: size 6" diameter; thickness 1/2"; hole 1/2" diameter. Catalog No. 64419, \$0.60 each. Box of 5 wheels, \$2.75. For U60 Portable Grinder: size, 6" diameter; thickness 1/2"; hole 5/8" diameter. Catalog No. 64420, \$0.60 each. Box of 5 wheels, \$2.75.



No. 64419
Buffing Wheel

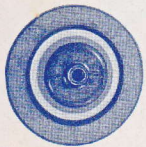


No. 59609
Flexible Pad

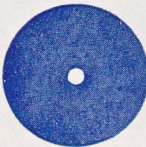
9" FLEXIBLE PAD AND REPLACEMENT PADS

No. 59609 Flexible Pad complete for U69 Sander, 9" size. Each, \$8.25.

No. 64422 Replacement Flexible Rubber Pad for above 9" Pad. Each, \$3.50.



No. 59568
Polishing Pad



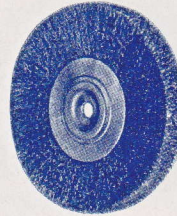
No. 61111
Felt Pad

7" SANDING AND POLISHING PAD

No. 59568 A flexible, general purpose combination sanding and polishing pad. Molded rubber and felt fabric. 7" diam., 5/8"x11 thread. Each, \$3.50.

No. 61111 Felt Pad. Used as backing pad with polishing bonnet and 7" combination pad above. 7" diam., 1/2" thick. Each, \$1.75.

(GRINDING WHEELS—See page 62)

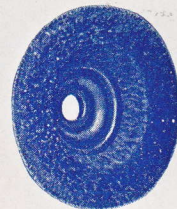


WIRE WHEEL BRUSHES

For cleaning, brushing and polishing in foundry work, castings and moulds, gears, storage batteries and dry battery parts, welds, scale from forged and hardened parts, brass and copper before brazing or polishing, automobile body work, stove work, etc.

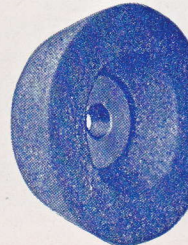
Catalog Number	Wheel Diameter	Hole Diameter	Gauge Wire	Price
64462	4"	1/2"	30	for 5" Portable Grinder \$1.75
64423	6"	1/2"	30	for 6" Bench Grinder 2.50
59661	6"	5/8"	30	for 6" Portable Grinder and 7" Bench Grinder, per section 1.00

Standard Brush for 6" Portable and 7" Bench Grinders, consists of 3 sections..



WIRE CUP BRUSHES

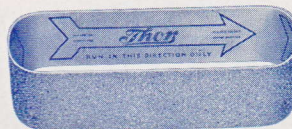
For cleaning castings, tanks, brick and stone surfaces, structural steel and sheet metal, removing paint, rust, etc. On U58 7" Sander attaches directly to sander in place of flexible pad. No. 64425 4" Fine Wire Cup Brush, \$3.00 each. No. 64426, 4" Coarse Wire Cup Brush, \$3.00 each. 6" Wire Cup Brush, 20 and 25 gauge, for use on U60 Portable Grinder and U67 Right Angle Grinder No. 59663, \$3.15 each.



CUP GRINDING WHEEL

Extensively used where metal is removed in volume, for smoothing welded surfaces and automotive work. Leaves very light wheel marks, which sander can polish out. Attaches to U58 7" Sander in place of flexible pad. 4" Cup Wheel, Catalog No. 64424, size 4" x2"x5/8" rim x3/4" back with 7/8" hole. Grain 36, Grade QR Rubber; \$2.50 each.

SANDING BELTS For Thor Belt Sanders



Genuine Thor Sander belts are made by the exclusive, patented "Grits-on-Edge" process that sets the abrasives with only the sharp edges at the cutting surface—this insures faster cutting speed and efficiency, prolongs considerably the life of the belt. Only electric furnace abrasives of the highest quality are used on Thor Sander Belts. All are cloth backed, hand spliced at 45°, cemented under pneumatic pressure. Each belt is tension-tested.

FOR TORPEDO PLANE, JR. (These belts are 2 1/4 in. wide and 21 5/8 in. long)		
Type Belt	Grade	Price
FABRIC— For polishing	No. 5050 Med. Hard	\$2.00
	3 1/2, 3	.20
	2 1/2	.19
2A— For Wood	2, 1 1/2	.18
	1	.17
	1/2, 1/0	.15
	2/0, 3/0	.14
	24, 30, 36, 40, 50	.18
2B— For Metal	60, 80, 100, 120, 150, 180, 240, 320	.16
	3	.20
	2 1/2	.19
2D— For Removing Varnish and for Pitch Pine, etc.	2, 1 1/2	.18
	1	.17
	1/2	.15

FOR TORPEDO PLANE (These belts are 3 in. wide and 23 3/4 in. long)		
Type Belt	Grade	Price
FABRIC— For Polishing	No. 3324 Med. Hard	\$2.50
	3, 2 1/2, 2	.21
	1 1/2, 1, 1/2	.19
3A— For Wood	1/0, 2/0, 3/0	.17
	24, 30, 36	.21
	40, 50, 60	.19
3B— For Metal	80, 100, 120, 150, 180, 240, 320	.17
	24, 30, 36	.21
	40, 50, 60	.19
3C— For Stone and Marble	80, 100, 120, 150, 180, 220, 320	.17
	3, 2 1/2, 2	.21
	1 1/2, 1, 1/2	.19

FOR MODELS 7 AND 8 (These belts are 4 1/2 in. wide and 26 in. long)		
Type Belt	Grade	Price
FABRIC— For Polishing	No. 926 Med. Hard	\$3.00
	3, 2 1/2, 2, 1 1/2, 1	.34
	1/2, 1/0, 2/0, 3/0	.29
4A— For Wood	24, 30, 36, 40, 50	.34
	60, 80, 100, 120, 150, 180, 240, 320	.29
	24, 30, 36, 40, 50	.34
4B— For Metal	60, 80, 100, 120, 150, 180, 220, 320	.29
	3, 2 1/2, 2, 1 1/2, 1	.34
	1/2	.29

Thor Multi-Matic AIR TOOL KIT

FOR AUTOMOTIVE SHOP SERVICE

To bring to the automotive service industry the features of smaller size, greater power, dependable performance and lower maintenance cost that are the inherent advantages of pneumatic tools, Thor has developed the new Thor MULTI-MATIC Air Tool Kit.

This kit consists of a small powerful air motor with simple, interchangeable attachments for drilling, grinding, sanding, polishing, buffing, and hole sawing. Proper design and correct construction for efficient, economical service in all automotive work of this nature are assured by Thor's half century of experience in manufacturing portable air tools.

Recognized as outstanding in efficiency, Thor pneumatic tools have long been standard equipment on factory production lines. The same principles of design and construction are now available in the new MULTI-MATIC to bring you all the advantages of air tools for service shop work.

LIGHTER WEIGHT provides greater handling ease . . . reduces operator fatigue.

SMALLER SIZE enables operation in even the most restricted places.

MORE POWER gets work done faster . . . saves time and effort.

LOWER MAINTENANCE is assured

because the simplified design of air tools eliminates commutators, brushes, armatures, and other parts that wear and burn out to cause repair expense.

GREATER SAFETY because there is no possibility of shocks, sparks, or after-running (Air tools stop instantly when turned off).

Any of the seven tools, shown at right, that go to make up the MULTI-MATIC Air Tool Kit can be purchased separately. Each one has the standard motor unit and a throttle handle, to which can be added other attachments to make up the other tools in the kit. Thus the kit can be built up part by part. Or it can be supplied complete, as shown below.

For full details and specifications on the Thor MULTI-MATIC Air Tool Kit, request Thor Catalog No. 80.



COMPLETE KIT. Includes all parts to make up the seven different tools, packed in convenient carrying case.

G9 Price \$117.50

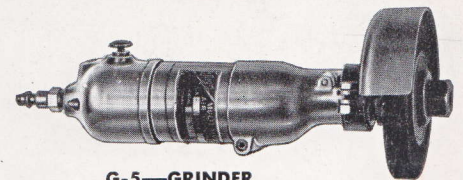
7 COMPLETE TOOLS IN 1 COMPACT KIT



G-1—1/4" DRILL
Price \$43.50



G-3—1/2" RIGHT ANGLE DRILL
Price \$58.50



G-5—GRINDER
Price \$48.50



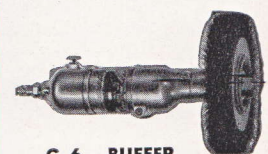
G-7—SANDER
Price \$58.50



G-8—POLISHER
Price \$58.75

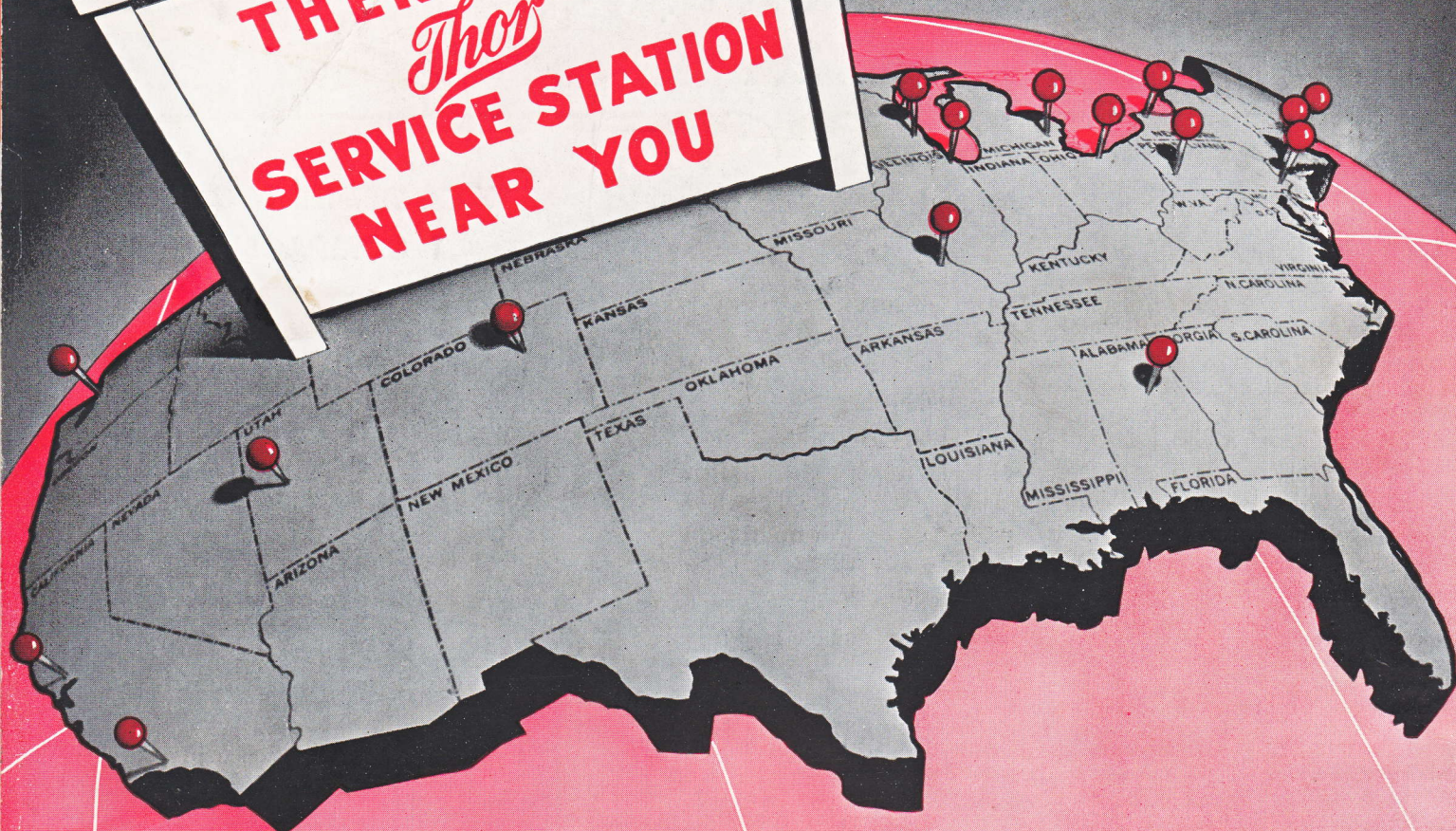


G-4—HOLE SAW
Price \$59.50



G-6—BUFFER
Price . . . \$47.75

THERE IS A
Thor
SERVICE STATION
NEAR YOU



**FOR QUICK FACTORY REPAIR AND RECONDITIONING
OF ALL YOUR THOR PORTABLE POWER TOOLS**

To make it easy for you to keep your THOR Portable Power Tools in highly efficient operating condition, THOR maintains 16 Factory Service Stations conveniently located throughout the country. Each Service Station has full facilities for quick repairing, reconditioning, and "tuning up" every type of THOR tool. Each has a staff of factory trained experts who are real "trouble shooters." Each has a complete stock of genuine THOR replacement parts.

When THOR receives one of your tools for repair it is completely torn down and every part carefully inspected. After thorough cleaning, all worn or missing parts are replaced or repaired, and the tool is regreased and reassembled. It is then returned to you with a *new tool guarantee* against defective materials and workmanship.

*To get this fast THOR service, simply phone or write
your nearest THOR Factory Service Station, listed below.*



INDEPENDENT PNEUMATIC TOOL CO.

600 WEST JACKSON BLVD.

CHICAGO, ILLINOIS

Birmingham, Ala.
1411 Third Ave., N.
Boston, Mass.
78 Brookline Ave.
Buffalo, N. Y.
521 Genesee Bldg.
Cleveland, Ohio
1740 E. 12th St.

Detroit, Mich.
15605 Woodrow Wilson
Los Angeles, Calif.
6200 E. Slauson Ave.
Milwaukee, Wisc.
2637 W. Clybourn St.
New York, N. Y.
330 W. 42nd St.

Philadelphia, Pa.
1701 Fairmount Ave.
Pittsburgh, Pa.
803 Wabash Bldg.
St. Louis, Mo.
4044 Forest Pk. Blvd.
Salt Lake City, Utah
54 East 4th, South

San Francisco, Calif.
315 S. Van Ness St.
Toronto, Ont.
32 Front St., W.
London, England
40 Broadway, S.W.1.